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<210> 23891  
<211> 257  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23891

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cctagcctct cctcctcaat gctagaaata tcccggaaaa aacaaccag cctccgaact 180  
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acggaaaacc tcgacca 257

<210> 23892  
<211> 354  
<212> DNA  
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<400> 23892

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ctccaactga gtcacgtac tcccacgtag cccttacctt cgcttctctc aatgccgagt 180  
cccatcaat cctcccaagc ttacacaaca tccaagtaat tcaacatcca ctcatcacia 240  
actaacaaaa ccaagcaaaa cagggcaaag gcaggaaact ctgccccaaa ctcataccaa 300  
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<210> 23893  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 23893

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1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

<400> 23894

<210>	23895
<211>	407
<212>	DNA
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cgaggcgctt	cogtaacggt	tccatgagtg	at tt ttgcga	ggttttcgac	cgttcttcga	180
cgttcttcat	togttcttca	togttcttca	gtcttcaacg	ggtaagtacc	tcaaaccaag	240
cttttcaatt	cattctatgt	acccggtggtg	gtccacactt	ggtttcatgt	at tt tt tttc	300
tcgtttcatt	tat tt tt tttat	acccctttt	gacgtgctta	agccatttta	tttaagtcac	360
ttctcgctta	aactaaaaat	aaaataaaatc	tccaccgata	gtttgaa		407

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 <213> Glycine max

<400> 23896

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 cctcatagtt gtttaagtct ctattggctt agcagccac tcatcccaac tacatctctt 180  
 gctttctcat gcaagttggt cttgttcctt ctgcctctg catatttaaa acatagaaca 240  
 ctaggaactt gcttaagatg agaacctcct acaccattcc ccactgttct tgcagatgcg 300  
 attggacaac catatactgc cttatagtga ggcctatttg catgtgac 348

<210> 23897  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 23897

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 cttcgaacct ctctcagctt aattccagac gcaatgatct ggtcctcaga ctgtattctc 180  
 ttgttttttg acatttatga gccttggcta catcaatcag atgatacttg cgactcttct 240  
 catttttttg ctcttgaaaa agaaaatgat atttctcacc catatttcat actctctctt 300  
 ttcacggggg ttccatcatc ctgtaccttg tgaaaaagca aactgcgtca aggagactgg 360  
 aatatgcttt tctttcgcta agatctagag ccagagatat ctttaattcac ct 412

<210> 23898  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 23898

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ttttattgga aataaaaggg aagtaaagac aaagacacta atttcattcg agcgatctca 180  
ccatccgacc ggccactaga ggaggcccaa gcagtgaaac tgaagaagca tgaagacatt 240  
gaagttcttc cttttcgatt tctcctttat ttatattttc attctctatt attttgatat 300  
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aca 363

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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23899

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gatctgtcca gagaaatcct gtttgagact cctgggtttgc acctatgcgg gaacttacct 180  
gcctgtatga gaaaattgtg tgacattcca ctgatactta tcatatccga taactctggt 240  
cttcttaaag attcatattt tcatggaacg catttgctcg ggacttattc ttgaaagtag 300  
tggatgattg cgccgatgtt ctggtcatgg atccccgcat ccatcctggg accgtcaagg 360  
gcacactgct cctttagttg tgaacctacg agggctcgat agacgtcgga ctgtataccg 420  
actggcctta atgtgtggtt acagtgactt aatcgctg 458

<210> 23900  
<211> 349  
<212> DNA  
<213> Glycine max

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acgatgatga aaaaatggtg atgatcattg actaagacac ataccacac cgtaaatttg 180  
accgtgacct tggaataatc atatgaagtt gttgattgga tagaacttgc attgaccta 240  
atacaaccat catcactacg atgattagac ttcacacca ccatataata tccatcacca 300



ttagtgtcat tgggaatttaa caacctccat atttgggtact gacactatt

349

<210> 23901  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 23901

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gaaaagggat gataaagggt taaataaaaa ataagaatgt agaattatat tctatatata 180  
acttaatgaa ataatgaatt ttatatgcag ataaaacgta ataatggtag aacttataat 240  
attattaaat agataaaata tatagtcaaa aaattctgat atatttagac atcttaataa 300  
tatcaatacc ttattgagat cctcaatttc tctctattat ctgtttttta cacatcatat 360  
taattattta tcttctcttt ttttagatct tttatttttt tttctat 407

<210> 23902  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23902

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tttctatgct tgaaacaaaa ttgattggtc ttgaatgttt gaaaagcatg tatgaaaatg 180  
atgaaaacttt tggagaaatt tttaaaaatt gtgaaaaatt ttcagaaaat ggtttcttta 240  
gacattaggc tttcttttca aagaaaacag atgagtgaat aggcaattta gtccctgaga 300  
ttgtaaccac tttgcatatt agtccttgac ttanattnta attcataata gtccctaact 360  
ttacataagt 370

<210> 23903  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 23903

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 agacttatca gccttcacgt gttaagtggg agaatttggc ctgccaaagta tcagatccat 180  
 aaacaaaaga ctgctataag atttaaactc tcatggaacg catttgtaa ggacaataac 240  
 ttgaaagttg gtgatgttg catctttgaa ctcggtcatg gaactaaact aaccttctg 300  
 gttcacatct tcagagagac agatagttca aattgttcaa cgtctcaagg taggattgat 360  
 gtttgctttt ctattccaac aattccttat atgtctggta aatatattca tctatct 417

<210> 23904  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 23904  
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 aagaagaggt agcaacatca tagtacaaag aactacccaa tgatagtga ttaggatttc 120  
 aaggggtgtg ttaatagaag gagaaaaaat agaaggagaa gaagtatgta ggcgagaaaa 180  
 gaagagtaaa taaatgttg ttgaatgaaa agaaataaag tgtgaataaa ggggaaatat 240  
 ttgaattaaa gttatttaat aagtaaaaact ttataattaa aaaaataaaa aggcaaaaca 300  
 caattttaac aaacaataat aaccaatttg caagcagggg cagtggggtg aggcagcgta 360  
 gcaagtaaag 370

<210> 23905  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 23905

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 cataggttga cgacatcacc tacttttgta aattacaggt gtttttattt ttatttcatt 180  
 gagatattgt cagcattagt caaactaagg aaaagaattt ttacactggc taaagttgac 240

atgggtgaaa ggatgtttaa tcaatgtgat ataatttata attttatata ttggttaaaa 300  
 tttctttaat gtgtttgtgt ggcgccttct aagggtgatgt acagtgggtga aaattttata 360  
 atatgtagca ttacttttat atacttatat tcatttatac atgtgaaagg cgaat 415

<210> 23906  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 23906

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 aaacattggt tttaaaaaat atatatttg ccaaggatga ggagatttac ccacactaga 180  
 gggtttgcgt tctgaaaaga agatgaaaat gtcaaaattg attgtcaagc aatctttatt 240  
 tattttttatt tttttaaaaa aaggcagatg aaaagatttt attagaacac atcactatcc 300  
 ttctcaaaaa gtgttttaaaa gatactacaa aatagttcat aaggacagta gcgattttac 360  
 taatataatt 370

<210> 23907  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 23907

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 acctagtaag caatatacac caggaggaaa acaagggtga ggaactacat atacaagata 180  
 caatggcaat cggcgttaca tgtaaagatc ttaccatttc tttttttggt ggtgctacta 240  
 cacgcatgtt ttctcgtaa caacgacgga tattactatt gagcaaggga gatcacagca 300  
 attatgattc ataagctatg gaaataaaca aatgaataga tactaattat atgtaaacgg 360  
 cgaagaaagt tacctgcata aaagatgatc aggttgcctt tcaattctgt atcatcaaca 420

<210> 23908  
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<212> DNA  
<213> Glycine max

<400> 23908

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gagttcttgg cagacaaaaa ctgttgtata tagcaaaggt ggttgatagt gatatatcag 180  
atgaggagaa tgtgatgaat tatgaatatt cagaaaacac tactaactgt atcatctcct 240  
taatctcttt aacacataat aggcaaaaata tacaacattt atcaagtctc actatggccg 300  
tggcattcaa caaagtecta agccaagaat ttcaatcttt ctt 343

<210> 23909  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 23909

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gaacgcactg tgatcgtatt caatatacgc aattgtgctc tttgatactt gaccaagccc 120  
acactttatt tattaattaa ctatatgaaa aagcgaagtt agactgaagt aaccagggat 180  
ctagagtctt atacaaatct atgaatcaca ctccgaaaaa atgaataatc atgtgaaaat 240  
tttgtaatta tcagtgagaa caggaaatag aaattggaaa tgtcttctca gaccaacaca 300  
cgctcttagt tgtaatgcta ttagggaata agctatagat attgactaag atgctgaaat 360  
cgaacaacat ctgactgcga tattgactac ttatgctata tatgcctctt tagtagccta 420  
tgt 423

<210> 23910  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 23910

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acaaaaaata aaagtaaaaa cgatcaaacc acataacaaa aaaaaaaacg agatcgcggc 120  
aaggaaaact caaattccaa acacgaaatc cacaaatcac aagaacgcaa gtcgcaaacg 180

cgaaatccag ctaatcaaaa caacaaattc ccaaataatc ataagaaaaa aaaaccaaca 240  
actttccaaa ttgaaaatca tttttccaaa aattaaaaaa aaaaataata acaatccgca 300  
agcagataga tcgagaagag aaacgaaagc aagctcgtga tttctaaaaa caatgagcga 360  
atcagatttc 370

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<212> DNA  
<213> Glycine max

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ctcccaaag cttcattcca ggagttatat tctggaatgc atacaagagt gaaaggttta 180  
agcacagcac acgggcaaca ggaatctaaa ctccaaaggt gtatgatatc aataagctaa 240  
ataaaaaaaaa tgcaacaatt aaagctaaaa gcatatcata aagaattaaa aataatatca 300  
taaaaaataa aaaactttta actgttaatt gaactcatcg tgacttcattg acatgaatat 360  
acaaactcaa ccctaaatca tgaaaccaa aactacctag ttctataagc tatgcacatt 420  
aac 423

<210> 23912  
<211> 365  
<212> DNA  
<213> Glycine max

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ttgtagaagc tcttagaagc tgtcctgtaa tctgtcgcca taggctaggc tgtagccttc 180  
atcatgaatt attatatata tatatcagca aactaaggct gaggatcctt tttatgtgca 240  
tattttcata ctcaagcatt tcaagtatgt aacaaaaaaaa accactctac accaattgcc 300  
tacatgttct ccttagtaca caccatacac ttgtcagtgt actgtctatc aaaagcattc 360  
ttaaa 365

<210> 23913  
 <211> 363  
 <212> DNA  
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<400> 23913

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 tcacaggccg acatttgata ttgaccttga tttgaactaa actggtatat catttgcttg 180  
 cccacaactc gattttattg caactatttg ctgacataaa ttccaaaact catgtttggg 240  
 aacgctgaat atccaattat tttatattta gcataaatgt tggtccttgc ttcttcagct 300  
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 ata 363

<210> 23914  
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 <212> DNA  
 <213> Glycine max

<400> 23914

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 ataggaagag gtgagccaat gagtagcaga agcaggtagc acatatcact aattttaaag 180  
 acaagttaat gtttaatttg ccaggaagat taagccccta aattctagac aaattttcat 240  
 caagtttttag ttgttttttt ttctttttga taaatttttc attagaatga tgagagatgc 300  
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<210> 23915  
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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 23915

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 cctaataataa aacctttaat aacttcaatt aatggaactg gggcaaattg tggcttttaa 180  
 cggtaaaaag gccttggaag gaagcacttt tccacatcaa aaaaggaccc ccgaaagttg 240  
 gaggaggagg aggaaaagaa aaaaggcttt cccttgaggg aaaaaatttc taacctaata 300  
 ctccccacacc aagtacatat tagaaaaacc ttttggaca ccttttgggt aaagtttttc 360  
 ttaataaagg atttgcatga aattaaccct ctttaaaccac atgttaagtc taatacaaaa 420  
 ccaaacatgt taaaggggta cgctgcatgg cctatggcaa ttaccttatt acacacctac 480  
 accn 484

<210> 23916  
 <211> 363  
 <212> DNA  
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<400> 23916  
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 ttggaaacaa gtcctttccc ctctctccag aacagggttg ttgtttaaca tgaattctct 180  
 gtagtttgta catcagtgcc ttagcactag aaaagtgatc atgcataaca atgtatttat 240  
 atctaatacc tacctcaatt ttatttggct ctctccaact tctcatattt gcttctatcc 300  
 ctttccatta aaaaagtctg acaagtaaaa ataaaagaaa gctgggtattg tttgttgtaa 360  
 tcc 363

<210> 23917  
 <211> 415  
 <212> DNA  
 <213> Glycine max

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 aaaataggca tggcctcctt ggtcatgcca agttatgcat taaaaagttg ttgatgatcc 180

ttgtattctt aatcgacttt aagactccct agcatcctta tactaagaca ttaataatag 240  
 ttcacaattg caattgcaaa tgtaaggtt aagggttttg gggcctcaca accataattg 300  
 cagtcacct agtcacgttt atcctcgta atttttcaca ataacaaga tcttaataaa 360  
 actgtaacct tgatcagtgt gatcacaatt atttaaaacc ttcataagagc gcatt 415

<210> 23918  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 23918

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 gcacaaggca agatgaaatg tcaaataag aattgaagct gcaggattca cgatgtcgga 180  
 tacaatgtcc aggacatcct gctcgaaaat actggaattg ctaaaagcat tgaagctgca 240  
 ggatccacga tgtctgatac aatgtccagg acattctgcc cgagaatact ggagttgctg 300  
 tactatgcaa gattaaagtc aagtagtgaa gctgcaggat ccacgatgtc ggatacgatg 360  
 t 361

<210> 23919  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 23919

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 taaaagaagc cataatagat gataattgga tcattgccat gcaagaagaa ctaaaccaat 180  
 ttgaaagaaa caatgtgtgg aaattagtag aaaaacctga aaattatcct gtcataaggaa 240  
 caaatgggt ttttagaaat aaattagatg aacatggtat aattattaga aataaagcaa 300  
 ggtagtagc aaaagggtat aatcaagaag agggaataga ctataaagaa acatatgctc 360  
 ctggtgcaag attagaagcc attagaatgc ttttggcata tgcataccata 410

<210> 23920



<211> 349  
<212> DNA  
<213> Glycine max

<400> 23920

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cattgaggta gatccaagtg ctctaatacat tcattagcat attcatgttt tggcggcata 120  
ctccccactg tttgtttctt tagggaactc accataacta aaaaagcgca aaggcacccc 180  
tataacactc gatccagaag taagatggat aactaagagg gagtgcaaga acagatgaat 240  
gctgacctat cggccttaaa agatcaaagtg gcttctatca cggaggccat gctaaagctt 300  
caaaaaacta tagaagataa tgctactgcg gccgcttcca atacggcta 349

<210> 23921  
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<212> DNA  
<213> Glycine max

<400> 23921

tgtaagtaag ttttatgtta ggaaacaaag tttgaatttc aaagtgcattg tcttggtgta 60  
ttcagaagct aaaaactagg accactcaaa ggtttttgtt tccccattat ttatcagtat 120  
aaaaaaattg ttgaaagtgt atatataatt catgctcaaa ttttaattttc atgttcaatt 180  
aaaacttttag tcaacaaaaa ttaatggtga tattttcaat attggaggac caatagtaca 240  
atgaaaattt taagtgtcct atatcttttg taggcaataa ataggatgtt atgtgtctaa 300  
tacttctttt ttaatgagaa cagattcct actcattcca tgaccattga tcaaagaaga 360  
gtttaaataa atttaatacc tcttgaagat atcctttata tacagtaa 408

<210> 23922  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 23922

agcttgaata caatgaaact cgcaaactta gcaaagctaa gattcactca atttgcctaa 60  
gtttctttca tccaatggac taacaacatt acaacacttg ttcatttcgt ctcagaatgt 120  
tctcttataa tgcgattttt ttacatgaac gccttcaagc tttatatata cttcagagct 180

tcaatccatt gagagatccc aactggctgt tgtctaatag ctttagtgct tgacacgagg 240  
 tcgttactgt acagagagag tgaggaccac aaacactttt tgcagcatat cttcacagaa 300  
 gtacaatttg tcaatgtcac ctagtgtca gagctgatta tcatcgtatg aatcgaa 357

<210> 23923  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 23923

cgctccgata atcttcgatt ggcttcgaat ctttcatcca ctacatctca agttctcgaa 60  
 ccagattcaa agcttgcatc cctttgattt tttcactgcc ttcatactct accttcaaaa 120  
 aattatagat cttgtgtgcc attatcatcg acattattct gttaaaaatg actagagata 180  
 caactgtgaa caaaattgat ttggctttgg actttcgaag ccttctttct ttgcgacttt 240  
 tcatttgggc aacaatgaga ttattcggca aaggaggaac ttcgtaatcc tcttctactg 300  
 cttcccatat atcattagca tcaagatatg cttccattat gacaaccac attggatagt 360  
 ttattccatc caatac 376

<210> 23924  
 <211> 82  
 <212> DNA  
 <213> Glycine max

<400> 23924

agttgtcaag aatccgagca ggtgctgatg ctggcgtagg caccttacac agcgagaaa 60  
 acctaacaga ggcgacactc tc 82

<210> 23925  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 23925

tcactatgag acatgagggg cacttataac ccttgatgtt cacacacggg gtggcggatg 60  
 gctcataggt taagaacgct tcatgctacc ctgcatgatg atcccaataa tccaatgctg 120  
 aggacgctat tgaagcacca acatttctgt gactaaagag agaaatgact atcgattcaa 180

gatcaagtgt aggattcaga tggattgact tctgatctaa tctcagtact gcgagcaccg 240  
 atttctgaca tgacttgctc attataatga tgaacaggac ttctgctacc ctgagttgct 300  
 cttggattga cttgaaaacc ttgtgaccac acagatatta cgctgttggtg atcgctcacc 360  
 agattacttg cgtcgattac cagtctcact at 392

<210> 23926  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 23926

agcttgccgc ccaactcgcc caggtgagct caactcgccc aggcgagcaa ggttgcttcc 60  
 tccagaagca acagccttct ggaggaatct tctggagggc ccaagtgggc ctggttgcta 120  
 ttacacccc cctgtttact aaatgcaccc ccctttctat ttttttgtaa ttctttttcc 180  
 atagcggttac gaaactttac gaatttcgta acgataccta ttttccttcc gcaagggttac 240  
 gaatccttac ggattatgta ttactcttt tttagctttc aaagaagtta cggaaactca 300  
 cggattgcgc aaaaacacct cttttcgatt tccgccacat tacggaattt cacagattac 360  
 gcaagcctgc t 371

<210> 23927  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 23927

tctaaactnt atacaagaat gaagctctga taccacttgt tagacaagtg gcctcagata 60  
 tcttaagaag ggggggttga attaagatat tacaaactac ttccccaatt aaaattctat 120  
 ttcactttct attcaagtta taaattccct taataatgaa cttcttaaatt attgattaaa 180  
 atagaaccaa ttgaatatga atataaaaca atgataaata aagaagttaa agggaagaga 240  
 aagtgcacac tcagatttat actgggttgg ccacaccctt gtgcctacgt ccagtcccca 300  
 agcaaccgcg ttgaaagttc cactatcttg taaattcctt ttacaagttc taaacacaca 360  
 aggacaatcc ttcctttgtg tttagaatta caacaagaga ccctcgggtc cttaatccc 419

<210> 23928  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 23928

agcttgtaga atttccagac atgatacatg tcagggtttg gtttggttca agggtaaaag 60  
 ggatgccccca cattatttcc atgacacaaa tgcaaaaatg atgatttgga aactttatgc 120  
 aaaactgggtc atgcatgcac ctatgtggac actcaagtgt caaattttta tggtcatgtg 180  
 atgctagggc tcaggattca ttccatctat tttagtcaac ccaatatttc caaaatatgt 240  
 tcttttatcc atttgtgcat tcatccgagt ccattttggg cgtccgggaa aattttcaca 300  
 gcattcacc ctcagtgtgta tacacatttt ttcaaaaact agctatgatc aatgaatttt 360  
 tttgaaag 368

<210> 23929  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 23929

tcttatccaa ggctcatctt ggtggtgaag ctctttcttc catggcttat tctctagtgg 60  
 atggcgatgc ctcttacctc ttctcctttg tcttccgctg catctccatg gtggaaaatc 120  
 accattaaag gacctcattg aagctcaaag atctagcctc catagaagct ccacaagcaa 180  
 gcttccatca agtggtaatc agagcaccag agcttcaagt aggtgctcct taaacctcca 240  
 ttaatttttt ttctttacct tcccttccat tgttgtttct tcatttttct ccatgtatct 300  
 cctcacatgt cttgttctaa atgttggttaa catgattctt tagagtttcc gccgattaaa 360  
 cttgctatag aaactagatt tgattttcta tggttc 396

<210> 23930  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 23930

agctttggat ttcttcactt tagaactttg agactcgggtg tgtattttcc ttaagcttcc 60  
 tactcttttt ataggtctaa ggtagcttat ttttttcacg ctaactgtgc actaagcatg 120

cactcctggg cttagcaaga atagtgggtt aatcacgcgc ttaacaöggg gttcacgtta 180  
 agcacgacct tggactttct cgtgagtctt cttcgtgcta agtgagtgtt gatcgctaag 240  
 cgagcacgtg tgctgggcct gtcttgtgtg ttgggcagtt atcaacaagt gtaacacaag 300  
 tttatatata ggagtttaag atgacaatta ataaaaaatt aaacatggca tatccacagg 360  
 caaaatt 367

<210> 23931  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 23931

tattgaagaa ggctattatg tgcagttgaa ctgttttttt tgtttatgta tgtatatattg 60  
 cattgcttgt accaatttgc ttatatattg gcgaagtacg aagatgggtga gtggaaaaaa 120  
 ataataaac taacaaataa attaacgagc attaagctga acgcgtgata ggggattaat 180  
 gcaccaaagt gtcgaagcac gatactttct acagactaaa catttaatgc ttctaacttg 240  
 tctttctatt gcaaagtcaa gtgacgacct tatatgaatt tccaagagca caatattggt 300  
 aaccatgcgc ggagttatta taggctccaa ctccatttgt tactcatcct taaaaacgtg 360  
 agaagaaacc tttttactcc tcagctctca ctcccccttc tccttttcac ccccatcacc 420

<210> 23932  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 23932

agttttcact cctttgtcat tgtgatgaag aggtgggggtt agggtttcaa agtagggaaa 60  
 agggaaaatt tcaagtgaag cgatcacaag ggagctggaa aaagagggtg aattgaaaaa 120  
 gaaaaaaaaa tattaacttt tagtttaaaa aaaaattggt gtatgtaatt gtaatttctt 180  
 tcccacgata ggagacttac aaaaatctcc cacactagaa ttcattctaca tgccagttgg 240  
 tagaacataa agttaaacc aacccatgca tcacgctagt aattaaacca ttatttttagg 300  
 cttcaaaaat aaatattttt atttacaat aatattttta aaataaaaac taatcattac 360  
 atgatacata 370

<210> 23933  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 23933

ctttgggata tgattatact atcaagtata aacccggcat aggccaatgt cgtcgctgat 60  
 gccttatctc gcattgctcc ggcgggaacc tgtttatcat tatcagtacc tcattatgat 120  
 ttcttggata aattgcatgc tacactcctg caggatgcac aatatgttga ccttataagt 180  
 caaattcggt cagaccccg c ttcttaccct gatcttttgt tgcataagga cctcatcctc 240  
 aggcagggtc gtatctggct tccttttttcg acaccctttt cctccatgct cttggaggaa 300  
 tttcactccc tccctctcgg cgccacacc ggaatctcga agaccctcca ctgcctgcgt 360  
 caaagcttcg actggccatt aattcgagcg gatgtccgct gttttgtttc acaatgcccc 420  
 ac 422

<210> 23934  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 23934

agtttataga aatcaaacac gataataaat tatectcata ttataataga agcatgtgca 60  
 taaataacaa ataagtcata agtcatcaaa acacaaatca tttgtctaag ttagaaagag 120  
 tatttggtta gtggttttgt gaagatgtct gtaagttgat ttttagtatc tacaattttt 180  
 tttaaataca gttacttttt ttttaagact aagtgcta at tgactaccaa cacttaccaa 240  
 gatgagtttt tgtaatatata gaaggttcta tcatatcaaa ataattctgt ttgaaatata 300  
 atataataat ttgaaaagc ataaataata ttttgaacaa tcaatcaagt aa 352

<210> 23935  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 23935

cagcttctaa accttatata aaaatgatgc tctgatacca cttgttggac aagtggcctc 60

aaatatctta agaagggggg ttgaattaag atatcacaaa ctatttcccc aattaaaatt 120  
 ttatttcact ttctattcaa gttataaatt cccttaaaaa tgaacttctt acatattgat 180  
 tcaaatagag caatttgaat atgaatataa aacaataata aataaaggag tttaagggaa 240  
 aagagattgc aaactcagat ttatactggg tcggtcacac ccttgtgcct acgtccagtc 300  
 cccaagcaac ccgcttgaga gttccactat cttgtaaaag cctattacaa gatctgaacc 360  
 acacaaggac aacccttcct ttgtgttcag atttctttac aacaagagac cctc 414

<210> 23936  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 23936

agctttttaga aagcttcgat gtagagtgtg tattgttttt cttccatgct tcagttgtac 60  
 atagcttgtg tcttcttcat agatagggca tgcattgatg cccttaacac tatatccact 120  
 caaattcctg tatgctggaa agtcattaat ggtacaaaat agcattgcac tcaacttgaa 180  
 tgacttattt cgatacccat caaacataac aacccctcgc tcccacaact ttttcaagcc 240  
 ttcaatcaag ggactgagat aaacatcgat gccatttcct ggttgccttg ggctcgatat 300  
 catcatagac aacatcatgt atttttgctt ggccaagcat tccatcgcaa tttctctgat 360  
 ttgc 364

<210> 23937  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 23937

ctaagcttct agctttatag ggtatttgac cttctttttg ctctaaatgg gggaatgtgc 60  
 tcgaatatat ggagcaatat tggtttgact acttgcttga ttaagatgaa ttanggggtt 120  
 gtatgggatg gccctangcc tataatgcat tttgaaaaca atgggacatg ccacattgac 180  
 ccccgctctt tgctattgtt acctaaacgc gcgcccacca agtggttcagt gaaatgcctc 240  
 aatggcatta gcgcgtgact tttgtaaaga acaacccatg gtgcattttg gtttggacat 300

agtttctttt tttgggacat gtattcattc ccgaaaaggc tatataattg cccacatata 360  
tctcaggcta ggaaccgact tttta 385

<210> 23938  
<211> 365  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23938

agtttcacat gtttaagtgg actcattcaa tgaaacatat acttgatcct gaaggatttt 60  
cttagtttta aatgatcttt tgatagattc ttgaaatctt ttcataagggt ttgtaagcgt 120  
ttgagagaat agataagtta ttgtcgcaac ctacccttca gcgggacggc gacacgtgac 180  
tcgctggtgc gtgtcccaag aaaggaatac gcgcggagtc accaccaacg tttatttgag 240  
gaaaacgtcg gaaaaactgg aaaagacgtg atctacgaac tcaaagtga aggttcggga 300  
attgtattta cgcacggnga aggtattagc accccacgcy tctgtcaca gagacggcag 360  
ccttt 365

<210> 23939  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23939

ttgtgtggag cttcaatggt gaacgaggggt ttaacataag cttcgtgagg gagagggaga 60  
gagagcttct gaaaatgtgg ggctgagtga ggagagagag ggttgctttt tggttttaat 120  
aaaagggctt tctctttntc tattatttta tttaagcaat gccacatgtc tccatttgag 180  
tgaggaaga acggccact atctcttttt gactgtgacc cctactcaga cacaaaagtg 240  
aggaaaatct gacctttgaa acgctaaaat cctgcctcgg tttgcctgcc atttctctgg 300  
tttcaatttc tcgctgtct ctgcgtccgt tcgggccagc tttccaaagc cccactata 360  
tatttcaaaa cgctcacatt aaaacc 387

<210> 23940  
<211> 339  
<212> DNA



<213> Glycine max

<400> 23940

ttttcaatct tgtggcacct ttcattggacg aagaaattca gaaggcaatt tttaaagctg 60  
cagcgaagtt ttttatgaag gaaggcaatt cacataagga ttgcatggat taaatggaaa 120  
tcggtatgct taccaaaaga aaaggtggc ttgggcatca aggatattga aacattcaat 180  
ctcgactac ttggaaaatg gaagtggcaa ttaatgcaag aaaatggtga gctgtggacc 240  
agagttctga aatcgaaata tggatggatg aggaacattg aagaaacagg aaactcagca 300  
aagcaatctg tttcgtggat ggatgtaaaa cacactttt 339

<210> 23941

<211> 413

<212> DNA

<213> Glycine max

<400> 23941

tcagaacaca gcatcacaga atctaggtgt ttaacacccc tccattcaat gggttttcta 60  
ggtttgagaa gtgaaattga gaatgaggtg aatttgaagc agactctcac ctacaccag 120  
tccataacat caatctaaac ttgcccaaatt tggatttaca cctaaaattc caccgaatca 180  
aaatttgact cttcaacacc caattttgcc ctgaaatgg ctctttattc actttggtca 240  
tttgtttttc cctctagcac agcctaacct ttctcacatg ttctaaatga catttcaagc 300  
taggattaac tcattttaat ctccatttac cacagaattc agacttagcc tttcaactct 360  
caaagcctca ctctttttcc actcacaaca ccacattctc actttctaac cct 413

<210> 23942

<211> 359

<212> DNA

<213> Glycine max

<400> 23942

agcttgccgt tttatctgac ccatgaactg ccctaactcc tttagactgg aggtccctaa 60  
gctcttgacc ttgacttgat agaacctttt tttaagcgaa ggcgtttgac ttgatcccat 120  
gttttactaa agtgaacaaa aatttagtgc gaatcagaac tccgacatcc atcatgggtg 180  
gaatggatga atgcatgaag aaatgcttat gacatacatg caatctatga atacggggagc 240

ccgggaaatt gtctccttct tcgatacaac atcttgggggt agcaaagtgc ccgacgtatg 300  
tatttaagaa agtgacacgg accctccgtt ggtttgccaa agagagtgga tcaaaacat 359

<210> 23943  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23943

taaagcattg attngatact gcttccctca tcatgtggct tatgatgtat acaatttaat 60  
gatcctttgc taccctgcta tgagacacac acacatagag acaaacacac gcagacacaa 120  
acacaaacac aaacacacac acacacacac ataaagatac acacacacac acacacacac 180  
agagacacgc acacataaag acataaacac actgaaccac agacacacac agagacccac 240  
acacaaagac acacacactg agtcacaaac acacacatac acaatcatac tcacacacat 300  
ggacagacac acacacacat aaagagacaa acacacacac acacacacac acagataaag 360  
agacaaacac acacacacac acagttacca catataaaga gacagacaaa cacacaaat 419

<210> 23944  
<211> 261  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23944

agctattcaa gcttcanaat tcaatttcca gcgtgccaat caataatggg gctccatcat 60  
acatccgtgc aaaactgatt ttgtcgatgc atcagttcag agcttcataa ttccatgttg 120  
atcgctcga cttatgccag gattcattta gacatgcgat aataatcgat actggcgctc 180  
gaatgggtta gcagacccac atttaattta agcggcacgg agagatcggg actcacacta 240  
aactccgacg ttaaagtatt t 261

<210> 23945  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 23945

tcagaattca atttcgagcg tctcaataga ttacgggact caatcagaca tccgagcaaa 60  
acgttattgt cgtttggatt agctcagagc ttcagaattc aatttcgacg gtctcgatat 120  
attacgggtc tcaatcagac atctgaggaa aaaagttatt gtcgtttgaa tttgctgaga 180  
gcttcaacat tcaattttga gcgctctgat gtattacggg acttaatcag acatccgagt 240  
taaaagttat tgctgtttga atttgctgag agcttcaaca ttcaatttcg agcgctctga 300  
tattttacgg gactcaatca cacatccgag taaaaagtta ttgctgtttg aatttgctga 360  
gagcttcaac attcaatttc gagcgctctg atgtattacg ggactcaat 409

<210> 23946  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 23946

agcttgtggt catgggagca gataactagg tggataaact taaagaatct tgtggtatgg 60  
gatgttcgga cacaatgctc taataggatg tgacattgga gcatgagttt gcgtttcaat 120  
tgcacatgt tctaagcata ttgttttact ttattttatt ttgctgttta atttgagtgc 180  
ttttgtaaac ttggacggc ttgttttgag ccggagatgt ttttaataag ttttatttgg 240  
taaaagtga tcgaatgtga ccgttttacc catgtgaatt tgtttaagtg atttgaataa 300  
aattgattta attaaattct gcatttttat atgagtttct tatttatatg cata 354

<210> 23947  
<211> 409  
<212> DNA  
<213> Glycine max

<400> 23947

ctgtcatgga ggctactgct atttatcctg atcatgtctg tctatgctcg gacttatctg 60  
ggggtccatt attgccattt cagtgaatta tgctctctag gtgtcgcagt tctttaaaac 120  
cacatctctt tttgcttttt atatctatgg ttgttggtgc tctcaaaccg tatcaataat 180  
acaaaatccc gttgaattga tttcattctt ttttatacat cttagattga ttttaagaag 240  
gttaattgaa aatgggattt ggaaaaatga aagatacggg aaagatatag gcccatatct 300  
gaaatttctc cttagctga tatcccaaaa gtgaaaatgt aagaaagtac ctacaccaaa 360

gagtgccattt gtacactatt taagttaatg ctatgttacc ctttatctt

409

<210> 23948  
<211> 323  
<212> DNA  
<213> Glycine max

<400> 23948

atgaaatagt atcttccctt cttgccacaa tccttggtga ctacgagcat gaagagctcc 60  
aatgaatgtg atgtcattat ggatgacccc tagtgcttcc atatcttcag agatgcaatg 120  
ctgcctcacc atgaccatgc atggcgaaac cagatatcat ggcattttac attgaaacat 180  
cacggtccat ggccgcagca agcaaagcat ctatgtctac acacttggca tacgtgtcca 240  
ccaaagaagt cttaagaata ataattccct taattccttg cttgtctatg taagaatgga 300  
tccacttacc catttcaagt gat 323

<210> 23949  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23949

actcagctta caaatcctaa ttccttaa at aggccctaact cactttaata gtcccaagtg 60  
gagtcgcaa ctgtcgcaat atgccctttt gcgggcgagc gaaggcgtgg ctcacgggtg 120  
cgctttccaa aggaggaaag atgcgcggag tcgccaccaa cgtttatttg tgggaaacgt 180  
cggataaacc gatggaaacc ggtcgaaata aaaattctaa gttcgggagt tgtatttacg 240  
tttgaggaag gtatttgac ctcttacgtt tgtctcaaag gacaacagcc tatttttcag 300  
aattgtggaa atggtgttat cttaactttt agttcttttt attttttgag gtcgacaaaa 360  
gcggtgctct tactcctacg taccctccat cgaagaggan atcagaccta cgtagttctt 420  
tcttaagggt gaatcacacg 440

<210> 23950  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 23950

actaagctcc taggcctttt gcaagcaaca tggatgttaa tttacaaaa agctattcta 60  
aaacgaaaat ggcatacgac ctcccccaat aacacagaca tcaatgtaaa tttagaacga 120  
actcatgcac atatttcctt tccaacattc actcgcacca gatattcttc taactaagaa 180  
aaatgcaccc aggcacaatc aaagcacctt cgttacctag atcactcata tgtacttcca 240  
agggtgtattt gctacctaca tcacatgcac tntctttgct aaattttacat acatgcatag 300  
ctcaagcatt ttggctacca aaaattgcat acgtgcacat tctggtattt ccaataccta 360  
tacatataca aactttgtga tgaatcttgg ctacctgcac aataagggtgc tacat 415

<210> 23951

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 23951

aaaactcacg ctntcgagaa attcaaacgg ccataactgt gcactcggat ttgcgataca 60  
tgcacattaa atatcgagac gctcgaaatt aaacaacgga agccctcgag aaattcaaat 120  
ggtcataact tttcactcgg aggtccgatt caagcatata atatatcgag acgctcgaaa 180  
ttgaacaacg gaagccctcg agaaattcaa atgggtcataa ctattcactc ggagggccga 240  
ttcatgcgta taacatatcg agacgctcga aattgaacat cggaagccct cgacaaattc 300  
aaacggtcat aactattcac tcagaggccc aagtcaagcg aataaaatat ggggacgctc 360  
gaaattgaac aacagaagct gtcgaaaata caaatggcat cactattccc tcggaggccc 420  
gatcgagcgt ata 433

<210> 23952

<211> 293

<212> DNA

<213> Glycine max

<400> 23952

atgggcgacc cgaaccaaac atcaacttga caacatgctt cataacacaa aagctgtatg 60  
gccctcgact tgttacaccc tgacaccata atgttatcat cacgagacct tttatgccaa 120  
catggaagaa gacatgttgg ggtgacctca acaaattcat tatcagtata ggcaaacata 180

tcaggagggt gccccctttc taccatgggt gtgtcgacag cagacgatgg cacaacccta 240  
tcatcatggt caacctgctt gaccaagggc ctccaagaga atccgccatt ata 293

<210> 23953  
<211> 556  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23953

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ccccccagca ggggcgcttg aacctgttg agaccataga acntcagaac actcgatgaa 120  
ctcagcctat gtggattcta tacacagaaa gcttctcagc ccttagattg tgctgaacaa 180  
aattacaaga ggtaactctc tcggacgctt cttgacatac taacattagt tttacgcctt 240  
ttctagacga tcctctcaca ttatcaatgg ctctctattg ccatacacgg acagtatcta 300  
acagcaatgc ttcgatattc ttttcaatac acttttatac taatccaaat aatcctttac 360  
aagccttgaa tcgatgtaat cttcttcggt ttatttgac caaaagcatt ctaaagggtct 420  
ctgggtttct aacnctcgaa acatgtgcta aacatcttct ccttactatc tccttggccaa 480  
taaaaatttg gcaagactaa cgtctaaaac tgctgtttcc caatctccct tttcacaaaa 540  
aaatgactac cgcccc 556

<210> 23954  
<211> 563  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23954

acacattttc cacacagact cgtacatact gtgccgtgcg dtcgtcgata nttaatatta 60  
nncccaggag caggcctgga gcgtgttgat accgtagcac ctcagcgana ctatagnaaa 120  
ttcccggccn ntggctctct gttggatcca cttgtattaa cttcctttcc gtttccacaa 180  
ccacaacact tcgaggctct cgctctcttt cgaagaagct gcacgtgtca gtgttgctgt 240  
cgctcttcac gtcacctcct ttggatgaag cctcaactat cgctaccgaa agttccttca 300  
gtttttggcg actctttatc cccatatata cttctctatc gaacaaaaat aatatcaacc 360

gctctgtcac caataagttt cgataactca tggctaaatc catcacgttt catagatagg 420  
 taaacctagg ggaagacacc ctaaagaccg gtcaaatact caatcttcta actcctcttc 480  
 taatgaaaag cttctctctc tccctaatat atctatcgca atatgctaca acgagacata 540  
 ggtgtgatta tctttgacca acn 563

<210> 23955  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 23955

ccagttatgg agagctaaat cctctgttgg ttcttctttg taagtacttg atgtaaatat 60  
 ctgtatatct atttaatgat gttttgtgtg ttcactatgc tatcagaact tcattctacc 120  
 atgcttttga cttgatcatg tagatgcatg tgttttttaga atcattcaac agtggaaaat 180  
 ggtctgattc ttagaacttg ataggacggg gctagtttat catattatca caagggatcg 240  
 aggtatgata acctagtggg tgtatgntg gcttaatgcg gttctaagtc gatttagttc 300  
 aacaagagga atctaacgac gatgcttgat cgggattatg ctagactatc atgatgaatt 360  
 cgggtagca ttgcaagaga caccatagaa cacatg 396

<210> 23956  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 23956

actaccaac acaattcaga tgggaatttg tttgttatta aaatataagt aatttacatg 60  
 taagataata tatatagcca tggcactaga aatcaaactt taaaagtata agaaccaaaa 120  
 ctataataga aaagaattag ggtaggtaga aaaaatatat tagaatcaaa tatatgtgtg 180  
 tgtagtttca ttacaccaat ttaaatacaa tatcttctca aatgattaaa tatttttgct 240  
 aagtattttc acatcaaagt ttcattaatt cagaccaacc tcatggagct acaggtacca 300  
 tcttgcccga gcagtatcaa acccaataga ataatcatgt tcctgcaaag caacacattt 360  
 agactttatc ataattttc aagtttiaca ctaataaata agaaagatct agacatgtga 420

cacaata

427

<210> 23957  
<211> 458  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 23957

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cctctgccat ttgtaacaaa tttgccatt gaggaataga tttctcagc tcttcataca 120  
acaagtcatt gtggtaggcc gcgtttccaa tctgagttca agtatggtag agcagattaa 180  
aagagaggtg aacaaagaag aaaatgtggc atatataggg tatgaaaaag cataagcatg 240  
acatcagttc taaaaacgag aaggataaat ttgtgctaga cacatctctg taaatttgac 300  
aattaaaaag taaagtattt gccaaagtga acattaaata caaataattt attgcaaaaa 360  
ttcatcagat gcagtaacaa taataactag tagactggca ttttatnta tnntttattt 420  
atgttcacat ccatactnt gnganatcat ataccaca 458

<210> 23958  
<211> 456  
<212> DNA  
<213> Glycine max  
  
<400> 23958

tctaagaata gccttgataa ctctaacatt atccatataa gcttccccta ttaagattgt 60  
atcatccgca aactgaagca tgtttactgg gaccttattc tttctacca aaaagctgtg 120  
aaagaagttt gtagagactg cttccctcat caaacctgat aacccttcag cagccaaaac 180  
aaataaaaaa ggggccaaag gatccccttg cctcagacct ctttgaggct taaactcctc 240  
agttggacta ccatttaciaa ggatggatat tgaagctgaa gaaaggcagc ctttaaccca 300  
accaatccac ctttcatgga acccattct cctcaacata tagaaaataa attgccagga 360  
cacagagtca taagctttct caaagtccac tttaagcact aaacacgatt tcttttgcct 420  
cctagcctcc tcaacaacct cactagcaat cagaac 456

<210> 23959  
<211> 404



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23959

ntgagccaaa atcctgactc accatatatc ttgacctatt gtgagaatgc caatccttac 60  
cctcggaagc aaaaaagaat ggaaaggaaa ttttcaatca aagaaaaaga gaatgaaaat 120  
ttccaatgaa agcaaaaaag aaatgaagga aaattcccca atcaaagagt gggagaaagc 180  
aaaataaagg aaaagaagga aaattcccca atcaaagagt gggagaaagc aaaaagaaaa 240  
gaaaggaaaa ttccaatca aagaatggga gaaagtaaaa aaggaagaag aagaatgaaa 300  
gaaagctcct gatcaaggat cgaaagaaac cagaagaaat gtgcagagag gtctttggac 360  
cagacaatat ctgaacagta cagaattgtc accaaatgaa caaa 404

<210> 23960  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 23960

gtgttaacga gatatttgtg gataagttct tgattaagcc taacaacaat gacatcaatt 60  
gcctgctaca aattggagag gcgcggtggt ttccaagttt gttgggttct attgattgca 120  
tgcattggga atgaaaaaat tgtccagttg catgactaga ctaatatcgt aaaagtgatc 180  
attgcaaacc cacattaata cttgaagtcg tcgctgatcg aggccgtacc cgaatcaaatt 240  
aaacattata aatgtagtat ctatgaagtg atcctatgtc gtctcccaac gagcaatgat 300  
ctactcaacg ttcataacaa atagtaatag aacagtacct aattgggggg ggtgtatgct 360  
ttcggatatt aatagccatc caatttgagt tagaaaataa ccatttacia catgttggtc 420  
ccct 424

<210> 23961  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 23961

actccgctta taataatagt gggttataaa atttagagtt ccctattgca acagagatac 60

tgctttgcca tattgagcaa acatcaaaga gcctttaaga cattggaatt gcttaacttt 120  
 tcctccactg caagtcaacc ccaccctgta tgtaccatat aactcatctc aaccgaaagg 180  
 aaaaaaatag tatagagtgc ggatggatag agagaaatgg tgtttttgac agttctaaga 240  
 cacagtttca tggatactac tactactacc ttggctatta atgttgcagc ctgtctactc 300  
 tagagggaga gattccctca tataatggcg gtggctcttt ctgggttctc tatgacaacc 360  
 agtatcgcca tcatcatgcc caacctcggt cttgccctat tgccactctt ga 412

<210> 23962  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 23962

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 tcatgatgta cattctcccc ctttctcaag caaattcttg ttgacatcat caagatcttc 120  
 atgatttaca cactttaatc gattacttag ataacctaat cgattacttc attgaaataa 180  
 tcgataatct tatagatgta attgattata ggcagttata actattttct ctataaataa 240  
 ttagttggcg ttcacatcta aacaatctag aaatcaagag agcattagag aatactcatt 300  
 acatctcgaa aattacttct tagcctcaga atgagcaaga ttttgtgctt tcattagtga 360  
 acaagagaat agaagacaat agctctatag taactcacia tttcttaatc tttcgattcg 420  
 gaagatcttt tcttgaaa 438

<210> 23963  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 23963

tgcattctga gcatgtcact ctaactgcat gtgaatgtga ctgtgccgag cccttctcaa 60  
 cttgtcacgt gttgaatact ttggctcttg accgttgtaa cttgcatcat ggtgcaaaat 120  
 tcctctgcat atgtaattcc aacctttcta gtttgaccat aggtagtacc actcaagaaa 180  
 ctcttacaa atttgtgctt tctactccga atcttagatc tctttctgtg atgcgcatc 240  
 ctattcacca actctctgca tgtgatcttt ctttcttga acaagtaaatt attgacgttg 300

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aagcctatTT taatgctcat tttcaaagga cacatttagc ccttataagt ttgctgcaag 360
tgctcgcaga ttatgtaaag actatgatac tctcttcaag tacccttaag attctaaatg 420
taagttactt aa 432
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<210>      23964
<211>      438
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      23964
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<210>      23965
<211>      393
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      23965
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ctttttcaaa gccaacgatg gtgtttattg acatcactac aattatgcc a tagtaataaa	60
gacttgtatt ctcaacttcac aaaattgtca caaatttgac atatatcaag cacattccta	120
gcaaaaatcca aaaaatagtg ctgttttaca gatatagcac tctagcctaa gaaaggaatt	180
gaaactcgaa tatcangttt tgagtatctt tgtgacataa ggatagtcac actatagaaa	240
gccaaaatgt atttatgttg ttattcattt tccacaatga aatacatcta ttaatctaga	300
tgcagttatt aattttgcac agaatgtaag aaatcaggtt caattttact caaaccatca	360
cgatgggtcta cagaagtgc a ctttacctga aaa	393

<210> 23966  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 23966

actcaagctt attatctaca ttntcaagga ttaaaacctt tacatgaagc attagttttc 60  
 tattttaaga aaatgtctta taattaatta gcatttcctt taatttttat aagacaaatt 120  
 atttgacaat taatccttgt ttttcaagac atgaaattaa gaatagtata aaagcttata 180  
 gctacatgta ttttattggc tcgtattggt ttaattttga ttttcaaaga taggagaatc 240  
 atactatgtg ttcttccatt atatatatat atatatatat atatatatat atatatatat 300  
 atatatcttg atgttacctc tgattgatgt gaagtttacg tcttgtctaa tgccttatgt 360  
 ttgtgtatga atcagcttca cacctgcata tgaactacgt atttnttttc tgtgtgtgtg 420  
 tgtgtgtgtg aagcagtttc ctcaacatgt atatatcat 459

<210> 23967  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 23967

ntaagtttgg atatggggtt aaacattcga tcttgaagat tattttattg ttgctgcttg 60  
 ctgattcagc acgcaaagt tactcaagtt aatttaattc tgtgttttgg gctattgccc 120  
 ctttattcca gaaaagagtt aaatcaacaa caagaaatga aagtacacta acactatata 180  
 aaggaccttt ttactcaaatt tgtattacac tgcactctga aggaatattg aaaaaattgt 240  
 aaagatagtc atatcgtgta ctgacacaac ttcaaaaaac ctgatggagt atacaatttg 300  
 taatattttt caacatgaat ttaatgatta tgaagaaatt tgggtgatat ggtctttaaa 360  
 gtaaaaactc tcaatttagt tctagtttat atcttgggtc tgtaatacag gatgatgggg 420  
 aaagtgaagg ggatgtgaat catcacattc 450

<210> 23968  
 <211> 440  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 23968

tgaggganaa cttgatgcct tggtaacct agtaactcat ctggcaatga ataaaaaatc 60  
tgcacctgtt gcaagagtcg gaggtctatg ttcttctgaa gatcaccata cagatctttg 120  
tccttctttg cagcaatttg gaatcaatga gcaacctgaa gcttatgctg caaacattta 180  
taatagcccc ctcagcagca aaaccaacaa cagcaaaata attatgatct ttcaagcaat 240  
aaatacaatc cagggtttaag aaatcatcca aaattgagat ggacaagtcc tccacaacaa 300  
caacagcttg tccctccttt ctagaatgct gctgggtcaa gcaagccata tgttctctct 360  
ccaatacagc aacaacaaca gtcacaacta agacaacaag caacggaggc tcctcctcaa 420  
ccttccttag aagagttagt 440

<210> 23969

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 23969

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gccgtaacga aatgcgctta gctcaggtaa gcttggctta gcgtgctgct tccaacaaaa 120  
aatttgacta agttacctgg gcttagagat tcagcttcgc ttagccatat gcctcttagc 180  
gtggtaggcg cgcttagcga gttcttccaa gaacgcgtat attcaatgaa tactaatgaa 240  
ctctcttagc gtagcatgct cgcttagcaa gttcatcgcg ttttccagaa aaaacgcaga 300  
aaacacagtt catcttcttg cacttttttg agcctctaaa aggcaaatca aacatgcaaa 360  
ccaacaaaa tgacttctac agtacaacaa tatataaagt cctaattctt aactacttct 420  
aanaacattc aaaccttaag aantctaaag taaat 455

<210> 23970

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 23970

tcacataata naataagcaa aacataatcg actattgtct gtggactgca acattcaagt 60  
ggactcgtca tggtcatccc atatgggctc cttcctgaag atgatctccc acacatgttc 120  
gttaggccgg taatagaaga caacctcatc tccacccatc aagtcattgt ccgttaagaa 180  
tctgtgccaa gggtcateca catattgttc accattatgc atggagatgg tccatatgtg 240  
acgaacgccca ctcgtatgtt gcacagtcac acatgggtctt gaagcatcaa caaaatcgat 300  
agcctcagta ggcaacaact acaggacaac aaaggaagtc acatttcata ctattgttga 360  
caacaaaacta cgacaacttc atcatatgca taaagtctgg ccaatgctgt aagggtggag 420  
atgataccat cggctacat 439

<210> 23971  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23971

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aaaaacgagt tacaaaacaa gctatctttc ccatctttgt aaccgggac tgggtttgat 120  
ttctttgtaa cattattccc catctttaaa gtgtcttgta actttccaat ctagctagat 180  
ctattgattt cgtttatggg ggtttgcatt atgaagataa ttagactgga actcaagata 240  
gaggaagggg acaccgtcac aacattctca acgaagatat tcatcagagt gaaatctgga 300  
ttgaaggagg gaaagaagag gtttacgac gggatgcatt ggaactccga caccgaccgg 360  
tggtgcatga tgatgatgat gtgtctggac acaaccaaag aaagacagct tgtggcggtg 420  
ctgccagggc attatgac 438

<210> 23972  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23972

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ttgagatttt aaaagaaaca ctgggtaagt ttccaactaa actatctatt ggtcaaccta 120

cacattcttc tattttgcag gttacagggt gtaccatattg tgggtgaggct catganacag 180  
 gccaatgtat tcccattgaa gaaaacactc aagaaattca ctatatggga aatcaacaaa 240  
 ggcaaggata tactcgggga ggattctcag gcttccagta tggtccttat aattaacaag 300  
 gacagtggag atcacacctt ggcaatcaat tcaacaaaga ctaggggtgga ccttctaaca 360  
 agccaatccg tcaagggcct aacatctttc agaggactac taagctggag gagacattga 420  
 ctc 423

<210> 23973  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 23973

tatatgcatt cggtgacaat ttaaggtctg catattttta atgagtaatt tagctcacia 60  
 atatgcaagt attataataa attagtgcac ttacaaatta gtgcataaca tacataactt 120  
 ataacaaata atcggattaa tttatcataa tatttatata tttgtgagct acattgttca 180  
 ttttaaaaat ggtaaaacta aattaccagc aaatgcatac ttaagaacta aataagctag 240  
 ttatttatat ttttattcat aaaagacggt cctatatata acaatactat atgaatatag 300  
 cttaaaaaat gaacattggt aaaagtctat gatacaaatt taataaaagt tatttattat 360  
 tggaaagagc taatattt 378

<210> 23974  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 23974

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 taatgctcaa tgtgtacgta tgatgtgttg gggatcattc aaattacaac tttaatttgc 180  
 acctgtgaca tccttgtggt tctactagcta gacaataatt tttggtgtca acgcatcatt 240  
 gaacgagtct tgaacatctc acacacacaa aaatacaaag aaccctctga ggaaaggaat 300  
 attaggaata atgtatatga gagacagata cagctgaaat tgagaggggac tatataaaat 360

aaagtgttaa taagtaaagt tcagtaattg cttggaaaca taaactacag tagcaagtga 420  
aaattgtagt ctgactta 438

<210> 23975  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 23975

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acagaattca aacttaacct tgcaaccctc aaagcctcac tctttgtcca ctcgtaaacac 120  
cacattctca ctttccaacc ctaggttaac tctacacttc atctctaaca gttttccatg 180  
ggcaatttca gcatacaaac atcacaaca tcatcacaaa accctaaaat agaatgggta 240  
tgtctaactc aaccaaacat ggtaatttca acaagctttc aacaagtttc ttcacaaata 300  
actatcatga agcagaaaac tagcaagact acccatcata tctcccaaaa cctcataccc 360  
acgaaattta taagagaaaag aagtcacccc aaacctgaaa tttcgaa 407

<210> 23976  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23976

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acaagaatca agccaaggct attgtgcaag caatcaatgg ggcaaaacac accaaatgat 120  
tataatgatg gatgggtcaa attctcacia aggtaaaatc atcactttca aattgagctt 180  
tcaaaactat catgacatgt agagaagaat caaggatttc aagtcacaaa atgtcaagaa 240  
cttttatattt caaaacaatt acccatttct tgaacatatc ctataattca aagaaaaaca 300  
tgcaaagtcg tacgtgcaca caaaattgac ccaaaatatt aaactgaaaa tccgacgaaa 360  
ctaacaacat taacaaatta acacaactaa caaattaaca naaccaacat aactagcaaa 420  
accaaagaac actccctccc cccctctccc atactta 457

<210> 23977



<211> 406  
 <212> DNA  
 <213> Glycine max

<400> 23977

tgagatgagg aagtgtataa ggggtgaaact tcttgctttt attcgttgac cacagagtgg 60  
 tacctggaga tatgtcgcgg gggtcaggag accttgggga cgtcatgtgg ggtgctattg 120  
 cccaaaacca agcttgacca atcccgaccc aaccgggca tagtcggtca gtgagaacct 180  
 gtgatgtacc taagcaggcg agtcctggc agtcaacaaa taaaagggaac aaagaccaca 240  
 cagcaatgag gcttgtgtgg tggttggcca gctgtgaaac ttgattgata tatgggatgt 300  
 ggctctggt aatcgattac caagggtgga taatcgatta caaggcttaa aaatgaagac 360  
 aggaggctaa gatggtctct ggtaatcgat taccagctt gaaaac 406

<210> 23978  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 23978

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 gatgatgcct cctctcactt cttctccttt atcttctgct acaacttcat gggtgaaaat 120  
 caccattgaa ggaacttatt gaagctcaaa gatccagctt ccatagaagc ttctcaagca 180  
 ggcttccatc agttatcaac gggttttttga catgaggcac aaagatacaa gtgttgacat 240  
 catagatatg tgtttaaaat aagttgtata cttgtaaaaa ttatgtaagt caatcgtgta 300  
 gaagcaaagc ttcattggtga atcanaggtg attcanaggt gttttgatga taacaatgat 360  
 gataacaaaa gatgatgaca aaggagatga caaaagctca aagatcaatc aaagaacaac 420  
 tcaagggaat catagatcaa tcaaagaaca actc 454

<210> 23979  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 23979

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ttggtatcag acatgggttat ggcatgatag atcgggtcgga ttttattcta tcagaaatca 120  
 aaagatgtta caactcaaat gatcgcgggc aatacathtt attgttatgc gagaccatga 180  
 cttagatatc tgactacagc acgtcaaaag ggggtacaga acgcaaaccg tataaaaata 240  
 tcagcacgcg aaacaagtgg ggaccactat gggtagatag aatgaatt 288

<210> 23980  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 23980

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 ttcaagccta taataaaatc tatctgttga attttcatga actttgtctt aatttacttt 120  
 agacacaatt tgaagcaaca ttcatgttga agaccttgag agataaggtc agtttaaggc 180  
 ttatctatga caaacaaggt gtctgtcttg ttttgcgagc tgtgtctggt agtgcatgtt 240  
 tttatttaat tttttgcttc tgtggttttc aaattcaaaa tacggttaca ttntattaaa 300  
 ctagagagat tttnttttca accatgtata ttataaaaat ctatcttcat tttctaaagg 360  
 cctaagcaaa atagagtggg tgtagtanag acattngtga agtatgggaa aagtgttgta 420  
 aagaaaattt tatt 434

<210> 23981  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<400> 23981

ctaagctttc taagtgaat cagatgcaac catctcccta agagtcctct cacgaggtgg 60  
 aggttgagcc atgttctcag tatgaaaatt agtgggtgaa tgctcaaat cagaatattc 120  
 agaatcacc tcaacagaat gctcaaatg ctccaatgc atagaatgac caggatgcac 180  
 atgatgcta actaatatat gaaaggctct atctatttca ggatcaaagg ggtgtaaatc 240  
 acctggattg ccctagtca tgactatat gcaacaaata atgtgtttct caataaacac 300  
 ctaacaaggg ggtaaaacta cagctatact caaacgatat taaaatgagc tgagattttg 360

tgaggaacac cctaaaatca tgaaaagata gcacaaaaaa tctcaaaaac aaaattcaaa 420  
gtctaactat gaaaactacc taagcaaag 449

<210> 23982  
<211> 274  
<212> DNA  
<213> Glycine max

<400> 23982

gggaagcttg aagttaactt cccacacccc ttttattact tagctcacct tcttggaag 60  
ctttcttttag aagaattctt aagaagcttg agcttaactt ccccttcctc tttaatagct 120  
aagctcacct tcttggaag agaagcttga acttagcttc cccccccta ttatagctta 180  
actcacccc ctggccaaaa atatggaaat accaaaaaaa aaggctcttc taccaagaat 240  
acttcaaagtg gcccaaaata ccaggcttaa acce 274

<210> 23983  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23983

ntanaggatg ttntatcagt acaaaaatat atgtgttttc actggttaatt gattacaaa 60  
tattgtaatc aattactaga gatacattac cagagacaaa ttacataaag gctttttcaa 120  
aaagaagttt ctcttttgaa atttgaattt taaatgctgt aatcgattac cacttgatg 180  
taatcgatta cctgtgatga aatttcagaa gttaacattg aaaagtcgtg acctttcaaa 240  
acataactat gtaattgatt accaagaagc tgtaatcaat taccagtgaag agaatttttg 300  
aaaaatattc tgaaaagtca cgtgtcttca aaagttttg aaaagccacc aaggacctat 360  
aaatacgtga cttgtctacg aaaaacatta gagtntttca ttagaaccta agtgacatat 420  
tctctc 426

<210> 23984  
<211> 529  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 23984

tgagttgang tgacncntt ttgaaacctg agacnntcga gacnccanng anaactaagc 60  
ttttagactt attcgaggct taagtatatc gtagtgagtc tttatctctg tgtacatata 120  
gggtcaaagca ttgctctgca attcatgtaa tcctaccagg taccacaact cgctgacaat 180  
agtctgtcca tttactggcc aaatagatga caatgtgtat tgaacagata ttactacgga 240  
cacctttgag ctcagcaact ttctttcttt cattgagact attcattagt catttgata 300  
tctcaagcgt gggaagatac tttatttgca tttgtgtgtc atccagcggc aattcttcaa 360  
gtgactctgg cgccaagaga gccaacaaca gaccaccac tgcattgcgc cactgtgcag 420  
cactctataa gggacagacc ttgatcact tcatacaata atccacttgc aaaaagatct 480  
cctgcccctg tgcattcagtc gcccttgctc tcctaattgc ggaccact 529

<210> 23985  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 23985

tgaaggtca ttgaccaga taaaacctga gtcattctct caggaatccc caaatcaac 60  
aacaaaacag actgtggctg actatgcctg gtcaatacaa actctcctgg ccttagaaga 120  
cataggcctc accagagtac caaattggc caaaaagacc tgggcaaaaa tggcttcaga 180  
atcagacaat gattctgaaa cagacctaca aaaacaaatc caaaaagcca aacagacca 240  
aactgtctgt aacaaaaaac caagccaatc gttgactcaa caagaatcaa caccacaacc 300  
cagcaatagc tatatttcaa aaaacaaatt cttcaatgtt ttacaaatgg aaccagaata 360  
ctgagacaag aatcctttca aggcaaccgc caaagtattc ccccaggat tccattatag 420  
gccaacagcc acaaat 436

<210> 23986  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 23986

gtgagcatag caagaagagt atatagttag ttctaacatt gacatagcat tagcgaggga 60

ttcaaccatt ctagctatac aacctctagc tgattatcct tccccatag aaatacctca 120  
 tgctagattc agctgatcca cctcacaac ataataaccc ttctaattggc tcacctgaat 180  
 acattgagtt atactcaacg ctattccaat atttcgatct gactcgatct ggaggacgtg 240  
 gtgatgggag gacagattct agctctgtta gctcttgaat tgcctctaag aactggagtt 300  
 atatgactct gacccaatac tactagagat g 331

<210> 23987  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 23987

taccagttac taatagtcaa ggttaattgt tttctttttt ctctagggtt tagtctttgc 60  
 aaacattgat gacttcaaga atcttcttga tactcttcaa gatgttgcaa aaacattcaa 120  
 gtcaaagggtg attagttact ttagcctaca tttggagctt tcaaaccatt ttcttgcatt 180  
 ttttagaact tatgggtctaa ttcttttgtt taaatgcaga taatgtttat atatgtggat 240  
 attaatgacg agaaccttgc aaagcccttc ttaacattgt ttgggtcttga ggaatcaaaa 300  
 aatactgtgg ttagtcttatg agttaataac agtgatttgt tcagattgct taattagttt 360  
 agatattttt ggcaactgat ttgatttact tcttgggtgtg ccaaatacgt aggcgcgttt 420  
 gataattaat gagctc 436

<210> 23988  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<400> 23988

taatattcga gcgtcacgaa tattacaggt ttactcagac ttccgagtgg aaagttattg 60  
 ctgttcgaat ctgctacgag cttctgttct aaatttcgag cgtctcgata tatcacggga 120  
 ctcaatcgga cttgcgagtg aaatgttatt gacgtatcga atttgctacg agcttcggct 180  
 ttgaattact agcgtctcag tatattacgg gactcaatcg gacttccgag tgagatgtta 240  
 ttgtc 245

<210> 23989

<211> 433  
 <212> DNA  
 <213> Glycine max

<400> 23989

ctccgcttaa ggactcgttt gtgttttctg agataggatt tcttatgttc ttctttaagg 60  
 gttcaacaag cttttgtgat ttccacttga aggattctag ctggaaagga agtttttgaa 120  
 tttctttgta tgtgcatttt tgtctataat actttgagat tcataatgaa aataactaac 180  
 taaggtagtt gtgtataatt ggatgtaggt aaaaaatgat tgaactaata taaattggtg 240  
 agtcattcat ctccctttcc ctaatctctc ttatgagttt tgtgatttgc gtattctaca 300  
 taactgaatc tttgttcaat tgattctaca tatttatatg atgattaaag ttttccaggg 360  
 catttccatc acattttaga ctttgatttt aagatttcat tggttcaaca atccaacaag 420  
 agatggtggt taa 433

<210> 23990  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 23990

cctatagaat actccgcttg aggaatctta gggaactact aaatatgccg ctatttttgc 60  
 catactacac acgtgaaccc gcttagaggt aaggaataag tctaccacaa tcgcggttag 120  
 agtaaacaatg tgtatggatc cttagaggat caaattgggg ttaaatttgg agattattta 180  
 tgtgcttcaa tttttcatgt acaatgataa ctacgaattg ttcattgtag atgagtcaat 240  
 tgatgccttg atgtgaatta gatgtgttaa tttacggtct agccttgaat gttaaacta 300  
 taaatctgag aattcttgat atctacatgt cttctcgaaa ttgattgaga ggttctgttc 360  
 cccctgatgt gaccacatat tctatgcta 389

<210> 23991  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 23991

tgtggagcca atgcaagcag aacgcatgga cgaagttgcc cggtccccct tcctacaca 60

acctcagcct ccaccatact tttgatcaat tgcaacaaat aataaatata tacaagaaaa 120  
 ttagtaagta ttgaaatfff taaatttaaa aaaatatcat ttttaagfff tatccaaaca 180  
 tgatcatata tcacttagtg gttaaagaag aagaaaagaa gaaaaagata ggagatttaa 240  
 tttctcccgf taacaaataa taatgaaatt atttattcaa ggagcaactg gccatggatt 300  
 ttgccaaatg aagttttgaa attaattaga ggaatgggaa ggtgcaggaa tgagaatggc 360  
 cccgccccac ctttgggtca tttttctcca accaattgaa tgaatagtga tattnttggf 420  
 ttgagtaata atatataaat tat 443

<210> 23992  
 <211> 514  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 23992

cggagcaagc ctttgaacct tgggtgagac cttgagacac tcggagacac tcatgagaac 60  
 tcatgctgaa tgcactgcaa tttatgcatg tttcatatgc tttctatctc ctaaggngga 120  
 gatagctccc tctaacgggt tcttattcct gaaatacctc gtgcatgcat acaccagtcc 180  
 atgaccttga aaggcttagg atcccattca acacttttgg atcttacatg gatacggcga 240  
 tgatctgtaa aatacctgct attacaaact gcgtcgagtc aggccactga aatgaaactt 300  
 tgctactctg caatgacaca cacagctgat cccaccact ctcacatata tgactacgca 360  
 cactgacata atcatcaaca ctaacacaca cgctctcccc cataatgatt cactcacacg 420  
 cacacacaca ctaaggcatg cattcctctg gctctggaga gtcacaatat tcattgcttg 480  
 gctcaatgat tgcatacttc tactcgcttg aacg 514

<210> 23993  
 <211> 550  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 23993

tgagcagcnt ttganccgtg ttganncctg agaccnctcg aacnccngcg aactataaa 60  
 ccactctcgc tatatagcta ccatcgattt attatctgca atttctgcga ttccaatgac 120

aggcaacgcg tgtgatntgg ttcctgctta tctcaatgta ccgacgctca tagaatgcag 180  
 cttattgcta aattatttgg tcgaatgagc atcacttagt gtgccattgc cagaccgttc 240  
 ggctaacata cctctgtatt gataactcgt cctgacctat gttcacttct cagttgttgc 300  
 tactattacg tcatactcta tatctttgcg tcattaagca aatatcatgg cgcacatatg 360  
 gtatgatcgc gccgaatcct atgtttatag tggctattga ttacggttca ctgtgttcgt 420  
 gaactggta gaatcacaat agtgtataac atccgccaac attctaactt tgtacatcgc 480  
 ggaggcattg gaaattgaat tcgtaccata tgcgtgctga tcgtgacgct cctgttatca 540  
 agacctcagg 550

<210> 23994  
 <211> 362  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 23994

tgaaggcaca ctggatgcat tggttaactn ggtaaccag ctggccttga atcacaaatc 60  
 tgtacctgtc gcaagggttt gtggattgtg ctcctttgct gaccaccata cagacctttg 120  
 cctttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgctg caaatattta 180  
 caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctctc 240  
 cagcatcaga tacaacctg gatggaggaa tcaccctaac cttagatgcg ccagccctca 300  
 gcatcaacaa cagcagcctg ctccttcctt tcaaacgctt gtgccccacg ataactatac 360  
 at 362

<210> 23995  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
 <400> 23995

tcgtacgcat atccctcatt taagactaca cccgatttag atagcactct taggtttaga 60  
 ctaacataaa ctgagtttcg ttcgcagatc cctcatgtaa gactactaga ctcagctcaa 120  
 gtagettact aaagtttatc ctaatttagc ccaagcttcg ttcgcataac cctcatgtaa 180



gattaggcct aaactaaaca acattattgt aacagcataa ttaaaaccaa aacttcaccc 240  
gcagatcctc atgtaaggct aagttgcaat cctacttcaa tcaagttcta aggcaacagt 300  
acatttccca atgctaattg cacctaattg tgcacacaaa tgggtgatca gacccaaagc 360  
atacaaacat taagcattga aggaagcatt gaacacagaa aacataatca attagatatt 420  
aggtatttac atcagctggt cattagaaa 449

<210> 23996  
<211> 448  
<212> DNA  
<213> Glycine max

<400> 23996

tgtccattat actcacattt ctggttcctc aaattcttta taaacgcctt agtgacctct 60  
gggtctcacat atttaggtgg gtgcaagcca ccctttgacc agtcaacca agtcaaactc 120  
ctattagaat tcttctccgg aaacattatg ttaacaaatg ttggcaagta gtgttcatca 180  
acatagcatg gtctcgtgca gcgctcttga aaaattggga agtaggtttt gtctgacacc 240  
acttctaagg caagttctct gtccatttcg aaccattgag acccttttct ccattgcttg 300  
agggtgacca tatgggacat gcgagggttg taacgtccac gtgcaactag actatcttca 360  
tcataagcca tcacatagct gtgggtggag tccatcacat atgagtagat tggtgagaag 420  
ttgatagagg gatgcatgat ctgatatc 448

<210> 23997  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 23997

tgccactgca gcaatcaagt gaacgactga agtgtccttt gacattggat gggttgcttg 60  
tagaggtaca tgctaataac taataagatt tcctgtgcag ggtatcattg tttttgcatg 120  
agtgatggct accttggggc tggatatttt ggttgaatct gcctcacaag ttatttcgaa 180  
ggtaattgac ataatctatt gctcttgttt gtttattata tacctaaatt tgggttcaag 240  
actagttatt caacacgtgg attatctacc acaagattgt tctaataagt gattttatca 300  
tttgagcagt tcatattatc attagacctt gctggtgctt tgattccgct gctaaagtgc 360

actagcagca caatgactag cagcacaagc attg

394

<210> 23998  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23998

ctcagcttag acagcttgtc ataatcgatt atgctaaacc tgtattcaat taaaataaaag 60  
agggttttgc tcttgaagaa acttttctaa cttagaaaat ttttctttac actaaccatg 120  
atgatgaatg atgcaagaca aatatcatat gtactaagat gcaacataaa agataacaat 180  
gaatacaaat gccactcaag ggagtttagac atgcaaaagt caaaacatct tcaagctntg 240  
gcctttatgt tgttcatcat gtttctcatt ntgtccatc tatctctaac acatgtcatc 300  
tntaatgatt ttgtctttga tctctcaaag aaggattaaa gatacttcaa ggaccacatt 360  
gagcaactac atgaagtgtg aaagtcaaca agagaagagt atgananagc ctatgatcct 420

<210> 23999  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 23999

actggtcagc cgaatggaga cttctgacta atgtttctta gatgtttgng tactaccaca 60  
tggctacttg gcttaaagaa ttcttcgcca attttgagct cagacacatt ataagagaaa 120  
acaatgagag ccaacttggt gttaaaactc gccagtacaa agaagaaagg ttaatacata 180  
atagttatca aggaaacaat cttggaacta ggcttggaaca atgtggtagc gagtgttaact 240  
ctcatttatt gagcgtggat aattgagatt tacgacttcc tgganaaaaa ctcactctcg 300  
aaatatctag tagcgacaag aaagattaag agaaatgcca gctattatgt gatagcggga 360  
ggatacctat acaaaaagagg ctctactacc cctctgttga aatgcctaag tcgggatcat 420  
gtcgagtatg tgatgaaaga catg 444

<210> 24000  
<211> 422  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24000

tgtaacctat tatgactntg acgaagtgca acgcgtattc tatggccatt gaattttttt 60  
ccttatcttc caatgctgcc cttaccgccg ttagcccttg gccaaaagaa tttgagtatc 120  
atatttatat gtttgataat tattattatt gttattattt tttctcttga tgcacgtaaa 180  
agagaataac ctaaactttt atatatgcgc attcaaatta aaactaacat acataaatgg 240  
tcaattaatg gatcttacat aatgactcgt tttcctttgc ttctttcagg agagatcatc 300  
atcaattgat atggaatcat gtgtgcctcc tggatttaga attcatccca cagaagagga 360  
gctcgtggtg tattacctca agaggaagat aaactcgcta aacatcgatc tagatgttat 420  
tg 422

<210> 24001

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24001

tatttatagt ttgtntaaac ccaattatgt tatgcttggt aaatcttaag gttaagaaaa 60  
aaataatttt taaataaaaa tttaaaagat agtactaaac taaatttatt gaattggaag 120  
tgcttcataa aaattagtta ttgaatcaat tagttttttt tttggtgtac attaaattaa 180  
ttagttaata ataaaatgac gtagaaaaaa atgtttatat gatttttata cattttttta 240  
tttctagaaa aaatactttt aattaataat aattaaaact tttgtagtta gttgtaaatt 300  
gatataattt ttaaaagata aattttttta ttaaaaatta agaataaata atataatatt 360  
aaaagaggga atttattgaa acacagtgct tcagcttaga attaagacaa ctttattagg 420  
ttgaacagac aacaatttc 439

<210> 24002

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24002

tgtaagcttg cggtattnt ctcccattaa agtataatta taagaaacat acacaagaag 60  
 ctttcttggt ctggtggcc attttgacat attcgtgcat atttacatag agactaaccc 120  
 attgctaata gtctatattg agacgggtca ttgggggttt atataactat gttaattgct 180  
 aatagtcaat gcctatcagt atcatcacat. aatccaatga ccttagactt cattgtataa 240  
 tagtaacaca atcatattaa cataataatt tacataatat ggttgtcatt atgaggatca 300  
 atctctcaga caaaagtc ataggaaggtg ggacacaatg acagatgcc tctagaatcc 360  
 aattttggtt ttatatcttt ccaatgagaa agagatgata tttcatcac 409

<210> 24003  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24003

atagaatact nacgcttgca gacaagacta tacgaggtat cttccttggg tatatcaata 60  
 tctctaaggg ctaccgtgtc tacaacttgc aaactaagaa actcgtcatc agtcgagatg 120  
 tggaagttga tgaatatgct tcttgggaatt gggatgaaga aaaagtggag aagaagggttc 180  
 ttatacccg c tcaactacct caagaagaag ctgaggaaga agaccaggt gaaccacctt 240  
 cacctccacc acaacaacaa gatcaagaac tatcatcacc agagtctact ccaagacgag 300  
 taagatcttt ggtggacata tatgaaacct gtaacttggc catacttgaa cctggaagct 360  
 ttgaagaagc gtcaaagcag gaagtatggg tcaaggcaat ggaagaagag atgcagatga 420  
 tcgagannaa caacacatgg gagttagtaa atcgt 455

<210> 24004  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24004

ntaataagat attatctatg aaagtaaact acaagtttca aaaggattcc ctttatggga 60  
 aaaatatata ctacaatcca aaagactatc acaaggccct aagttggtec cctctaacat 120  
 tatatacgta actagcaaaa agagagagtg gtcttgactc ctagtccatc ttctagatct 180

aggtcttcaa gaagctgtat gatctcttgt aatatcagta ttatctgctc tcgtacaaaa 240  
catgatcatc acagccatac aacacaacat agacatgaaa gcaagggtaa atttttataa 300  
aagaatcatg ccataaaaaa gtaaagggat aatgagatag cttacaagag aattctgaat 360  
aaaacattca ttaccaaatac aattcaagca tatgatatga taatctcaat tcacacttta 420  
atctcatatg catatgtatc 440

<210> 24005  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 24005  
atthagaaaa tacaaattaa ctcttttata tgctaattct gttttataaa ataaaattaa 60  
taaatagaca gcttattaat ggaaaaaatt gtataatatg catgagacct tagaatcaat 120  
ttttttataa tcattgtaca caaaagggaa ataaaattaa tttgatgtat aatacttttc 180  
aattctaaaa taagtatcgt cctaattatt ttacctaaat aaagaaaaat tattagaaat 240  
attagaaaga aagggtccagg aaaatgatct ctttattccc atgacaaaaat gtgtttatat 300  
acacatatg tattacaatc gtgatcctat aattaagtta ggactaatta cactaaatat 360  
agaaatgaac atatatggaa agaattggtc ttgatagcta cacaccggca gatactaaat 420  
cat 423

<210> 24006  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 24006  
gaagagagaa tggaagagat ccctgctgtt cttccatgct ttataatcag cggcgaagat 60  
cccgtctccg aaggcctgaa aaatgtgacg aaactcgggt cccttgacgt acgtgtggaa 120  
attcttgctc agcatgtggt ggacgttgat ggggtcgcaa gtgaccaaat agtccatgtt 180  
ggtaaaccbaa ggtccaatga actcaccagt gccaccatgt cgttgcaaca cctgagatga 240  
ataatcatgg gcacgccata aattgaacag taattgtggt agcatgcaa tgatacggta 300  
ttctgtccaa atggggttggt gcaacatcgt ctccatgga agaaatattg g 351

<210> 24007  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<400> 24007

tcaggttgct caattgctcc aggttgctgc acggaatgtc aaaggtctgt atgggtggta 60  
 gcagaggagc acaaaccaca aacccttgcg acaggtacag atttctgatt caaggccagc 120  
 tgggttacca agttgaccaa cgcattccagt ttgccttcaa gcttcttagt ttcagatgat 180  
 gcagatgggt ttgtagctac ctcatgcact cctctaata ga ctatggcatc atttctggcg 240  
 ctaaactgct gggagttgga ggccatcttc tcaattaaat ttctggcttc agcaggggtc 300  
 atgtctccaa gggctcaacc actggcagca tctatcatac ttctctccat attactgagt 360  
 ccttcataaa aatattggag aagaagctgt tctgaaatct gatggtggag gcaactggca 420  
 catagtttct taaatctctc ccagtactca taca 454

<210> 24008  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24008

tatgcgcata tttccttacg aacgttcact tgcacaagac atcctatcat ctaagaaaaa 60  
 tgcaccata tacaatcaag gtagcttcat tacctagatt atttacatgt acttccaagg 120  
 tgtatttgtt atttacatca cacacgctc cttggctgaa ttacatata tgcatactca 180  
 aagcattntg gggtagcaaa aactgcacat gcgctcatct tggatattct aataccata 240  
 catatacaaa cttcacgatg aatcttgact acctacacaa taagggtgcta catttcatgc 300  
 tttttttcaa gtttttgcta cctanagcca catgcaaatt caagcatatt ttcttttgc 360  
 gactaaaatt gtattcaaat tagaaggtat atattntttt tgtaatgtgg tttcttcaca 420  
 taacatgcaa catatttata tata 444

<210> 24009  
 <211> 439  
 <212> DNA

<213> Glycine max

<400> 24009

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catctctgtt ctcaagtaat gttcctttac cttctcgttt ataggatcac cactttactg 180  
atcaacgata ggatcaataa tgatgttcac aaatttactt tgatgctgat gctgaacgac 240  
ctttgtctac tatccctaata cagatacacg gtgacaaaat aacaggagct accaatcata 300  
aatccgtgaa tttggaggga agcctgttgg ttcagcacct gtaagtatat actgaactct 360  
tatgcttatt aattattgac tggatttatt tcttctatta gatctatgtt tcctctacga 420  
aatgaaatgt tgtcattat 439

<210> 24010

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24010

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ggtagccttg tgattagatt gtttctccca tctctgatgg aaagattgaa atctttcatg 120  
tgaatatcat agcctttttc gagtaattgt cccaaactca aaatattgat cttcatattt 180  
gggacatagt agacatttga tatgaattca tgtcttccaa ctttcaaacy aattaagatc 240  
taaagcatct atagtagaca tttgaaatga attcatgtct tccaactttc aaacgaatta 300  
agagtcttat aattatcacc aaatgaaaca ctattctaaa gcatctatag tcaagtatta 360  
ttggtgacta tggcgacgat aatacattaa tgtntttgta tgagtagatc gactaatgac 420  
cacgtctcat aggtcatgga ta 442

<210> 24011

<211> 435

<212> DNA

<213> Glycine max

<400> 24011

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[illegible]

<400> 24012

<210>	24013
<211>	399
<212>	DNA
<213>	Glycine max

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ctctcagcca cttatgatag ccgccgatga tcccattact gcttcgcgta agctctttgt 120
cctttcttca cgccgcaccc catgccttgc gaactccttg gagtaccctc gcgttgtgggt 180
caccgaaacc ccgtgcgatg aaaggcgtga tgctttcgtc tgatggcact cctctcatgg 240
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ggtagccaaa ttgtcttatg gcgaggacgg gattataatt aatacaacct cttgttccat 300  
 caagggaaca ttgggacatc cttcgcatga agatagaatc ctgattcttc cttccttcta 360  
 gcgagggaac anattaacag acgcccctcc atgctagcc 399

<210> 24014  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 24014

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 aaaggacttt ccttggttct ttttgaaacc ttgcacataa gtaaacta aacattatat 180  
 caggcctata cgctataagg tataacaatg atccaatcat tgctatttat tgggttttgt 240  
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 atttcttttg cattgtccac gttgaacata tttagaagtt ctttcatata cttggtgatg 360  
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<210> 24015  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24015

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 gctcatcaca ctcttctcta accctaataa ctgtcgtctt tagcttctct ttcaccactc 180  
 ttgtcttttt aagctctggt ttcaaagctt gcacttcttc actttcttca agaatttcag 240  
 cctctttccc acttagactt tttagctttg ggagccacgt tatcccttgc attctagact 300  
 tcaaccatat gtgatagctg ctgatgacac cattgctact tcttctaagc tcttatctt 360  
 ttcttccac tctattccat gctttacgga ttttttgaag tatctttgca tta 413

<210> 24016  
 <211> 395

<212> DNA  
<213> Glycine max

<400> 24016

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cttctctccc actttttattt cttcaatttc gtgctcccc ctctctcttt cggaccctct 180  
ttcttttctt ccattgaagc atccttccaa gcttcttatt caagtctcat cttggtggcg 240  
aagctccttc ctctatgggt tattccttaa aggatggcgc ctctctcac ctctttgggt 300  
ttgtcttaag ctgcatctcc atgggtgaaa atcaccatta taggacccca ttgaagctca 360  
aatattcaac ctccataaaa gcccacaag caagc 395

<210> 24017  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24017

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cagggctgag tcttgtgcta aggggggatg gtgacataca tctattgtgg ctgggatcct 180  
agtgtaaaca tatctatggg ctgcctaata cctgctctca agctctgcaa ggcgtgtata 240  
attgctacta tggctacacc caagttctca gtatttcatg gctagcgnnt tgaatatgct 300  
gcataccag cctctatatg aatgttagta cctctgcgac ccacctattg tatatgacct 360  
actattgctg agcgaagaat aaaactgcac tatagcttat cttatgacac catgcctctg 420  
cacgaaatga ctct 434

<210> 24018  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24018

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gatgataatg cccaagcett ttgtgccaga tttctgtgtg attctctatg agagagaaaa 120  
cagcttgctc cttcttcaat ggatttagag caaaactntt tcctttcatt ttcacctcga 180  
agatttcttg accagctaca tctttaatta agcaatTTTT gttttcaaat acaactttaa 240  
atcctcgttc aattagttgg ctgacactta ataagttttg gtcaatttct agaacgaata 300  
ggacatcaac aatacatctt gtgcctgcag aacttgtgat tgcaactgtc ccctttcctt 360  
tgactgagat ataatcacca ttaccaattc tgactctggt gactttt 407

<210> 24019  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24019

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ggctctgcac tccctcttca ttatccattc ttctggatcg agtgttatag gggcgccttt 120  
gcgctttctt agttatggtg agttccctac agaaacaaac aatcgtgagt atgccaccaa 180  
aacatgaata tgctaataa tgatcagagc acttggatcc acctcaaggc ctttttttag 240  
ataacgtgat gagttgcaga acttctcgtt ttataaaaag gaacanagct tttatctagc 300  
caagatcata caaaagtgtt acaacagaac ctaacggttt ctaattatat gggccatcan 360  
atctatcatg tgttgacagt aattgattag cccgtgaatt tcctcggggg ctgtacacac 420  
t 421

<210> 24020  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 24020

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aattgtttgt gttttacaaa tgcaggggta aatttgcaca ttgggcctta aagagactac 120  
taccgaatag ccttggagac ctatgtagtg tttgagaagc catgaacaat atgatcactc 180  
tacaacatat tgaaattaaa gcatcggttg agacaactac acatgtgggtt gggcatgttt 240

ttaaagttac cttatacaag aaactatttg gcatggtatc aaggtagtg ttaaaccaca 300  
 ttgttgctga gtttgagcat gtaaattatg ctagcattga tagttctcat tatatatata 360  
 taatgagaac tactcacggg cttccatgtg cacg 394

<210> 24021  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24021

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 gtaaatgcac attttatcta tatacaattg gttgttgctt gcttgaatct tgatttcagg 120  
 tattgtattg tcatcatcaa aaagggggag attgtagatg caaatgcctt tgggtgtttg 180  
 atgatgatca tgatgaagaa aagcaaata tgcataatgat tcaagaatac aagccacaac 240  
 atcaagatga tcactagtac attaggaagg aaattcataa ttgatatagc aaaaggtttg 300  
 gccaaagtaat gcatgttaaa aagtgttttt cagaagatct actctctggt aatcgattac 360  
 cagaggatgt aatcgattac cagtggccaa aaatgcttta caacagctac taaatatttg 420

<210> 24022  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24022

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 tattgagaag aggttgctct taatgctcat agataattgc gtgatgataa caaacaaaat 120  
 cttaaactcta catgagtaat tcaacttctt cttactcgtc aaatttgctt gcataacatc 180  
 taatacactg caaacattct cacggcatct aatatgttgt ttgcctccta tatttaagtc 240  
 atttgattat tctgtcaacc canaccttac tttgaaccaa caatgaaaat gctcaatatt 300  
 ttgagatggc ttaacttgac aatatttatg acatctctac tattgaataa caacttttag 360  
 atctaaaatg tcttacattc tgtaatcatg tcaatttctt ggacaacaaa tgaccaacaa 420  
 tatttcaatt gtaacat 437

<210> 24023  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 24023

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 gcattctctaa tcacctttcc tctactcca ttctgcttcc attgatcttc aagaagcaaa 120  
 ggactccatt gatgaagaag atccaaggcc tacaatctcc acatggagct acatcatgtg 180  
 gtatcaagag catcttcata taggtgatgt tcttttgctt cctctatctt tntcttcggg 240  
 taattcactt taatcttcat tttcttctcc atgtatctcc tccattgtct tatgggttgg 300  
 tgttggttat agtagattca aaaaaataaa tcgattanat cttagatcta cacttggtct 360  
 tgcatttcta tggttcaaat tntatagata aactcttgaa tcatgntttt gtgttgattt 420  
 taaggtgtat cttttttt 437

<210> 24024  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
  
 <400> 24024

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 tccaagtagg cctccggatc attctttcct ttaaattggag gaatgttgag ttaataacca 120  
 tcaattcggg tttgtctaag aacaccatca ttccctcttc tctctcttcc ttcttcatta 180  
 tgatctctat tctccatttg atccaacctc tcatggagcg catcatctcg ttgcttcatt 240  
 aacctctcca aatgttgcat caaagcttgc atttggaatt gcgaaagccc cactccatca 300  
 ttaggattag tacctgacat ctcaaacgaa caaatcatac gtaacaagac aattatagtt 360  
 gctggttgaa tacctcacc cactcaagtgt atcacacaat tatggctctt ctctaagat 420  
 acactcttgc ctttttac 437

<210> 24025  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24025

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 aaaagcttat taaggcacct gttctagctc tttctgactt ttctaaaact tttgagctag 180  
 aatgtgatgc ctctggagtg ggagttggag ctgtattgtt acaagggtggg caccctattg 240  
 cttatttttag tgaaaaaatt catagttccc ccctcaacta cccacacctat gataaagagc 300  
 gttatgcctt aataagagcc ctccaaactt gngaacatta ccttgtttcc aagggaattg 360  
 tcattcatag tgatcatcaa tcaacttaagt acattagagg gcaaaacaag ttaaacaaaa 420  
 ggcattgcaaa at 432

<210> 24026  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 24026  
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 ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcggtcag tgagaacctg 180  
 tgatgtacct aaacaggcga gtccttgcca gtcaacagat aaaaggaaca aagaccacaa 240  
 agcaaggagg cttgtgggtg ctggccagct gtgaactttg attgatatgt gggttatggc 300  
 ctctggtaat cgattaccaa gggtyggtaa tgcattacaa ggcttaaaaa tgaagacagg 360  
 aggctaagat ggtctctagt aatcgattac cacgggatgt aatcgatta 409

<210> 24027  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24027

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ctaattggcat acttttagtgg cttctcgcaa agatctcatc atcactggaa acacgaagca 180  
 tgtaacgact cgcctcgtcg ctatgatata accattctaa accgtgaaaa tttcaatttt 240  
 taaatgaaaa ctctgttaat tttcttatga aaaaaaagta atttttttca cgatatacat 300  
 tcaccaaaca acgcataatt acttaaataa atacatatat agatatagta actcaatata 360  
 catcatccac ataattgana gtaaattagc ttatac 396

<210> 24028  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 24028

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 cagcaacaac ttctcatccc tggaatgcca ccctatcttg cgacaatata ttttgagatg 120  
 gcacttagga caagttgtcc ctttgtacct atcgaaacca ggtaccttga atgatgcaat 180  
 cctaccccc aagggcattg gatagaatac tccaagaaga ttggggccaaa gatgcaagag 240  
 aaagccctag ggttctctta agccttatgg tagatttcag gcccatggac taagtatgag 300  
 cccacttata tttgtacata ttagattaag gcttcattaa tattgggtct tgaatttatg 360  
 gctctataat atatgtaggg taccttat 388

<210> 24029  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 24029

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 gtcgaacgaa gttcaacgag caagcattaa cttgccagag tcaagaacag acattcagaa 120  
 gattcaagag aaaatgactt caagatgcca gagaagaaat caacgaagca acaaggcaag 180  
 acttcacaag ggaagtatag aaaaggatat tccaaaaaca caccacagca aaaccttggt 240  
 ctacacaaga agtccctca tatgtctcta agataccaga cgaatcactc tcgtggaatc 300  
 agaaaccagc tccctgtaat cgattaccag cgaaaaaagc ggatggcaaa gagctcttaa 360  
 ctgaatccgc aacggcacca acgaactaaa atggcggag 399

<210> 24030  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 24030

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 actggcacct ggagatatgt cacgggggtc aagagacctt ggggacgtca ggtgtggtgc 120  
 tattgcccac aaccaagctt gtccaattcc gacccatccc ggttatagtc tgcagtgat 180  
 aacctgtgat gtacctatgc atgcgagctt ctggcagtc tcagattata tgattgctgg 240  
 acctctaagc atggatgc 258

<210> 24031  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 24031

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 gcatactctc ttgtaccact ctgtggtcaa cgaataaaag taggaagtct ctcccttcca 120  
 cacttcctca cttcaagcat gtaagattat ggggtacccg tcacatgtgg tactaggtgg 180  
 cggtcggggc atggtgcaag tcgattatcc acatccacaa atcacacata aatccaccac 240  
 ccccagttgc ccaccttcaa ctgagctcac gtactccac gtagccctta tctcgttcc 300  
 tctcaacacc ggggtcccat caatcctccc aagcttccac aacatgcaag caatttcaac 360  
 atccaaacat catgaactat 380

<210> 24032  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 24032

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 tcaatcatca aaccctaaaa catagtaatc tctataaaaa ctaactattg ttgacttata 120  
 aaacctacac actcatcgta actatgatca acaacaatta cagatccaaa atagacatcg 180



aacaccaagc atcacaaact tcttaactac aatcatcaag ctcatccaaa aatacaaaaa 240  
 caatcatcaa aacacaaaca aagacaatca acgacaatca ttaatctaca aacaacaact 300  
 aacatgacta tcaaaacaca atcaaagaca atcattaagc cacaattaac aataaccatc 360  
 atacacagaa ctcaatataa agaaa 385

<210> 24033  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<400> 24033

ctaggaaaat agtataacta actcacatac tctgaaccga gtacaatact cacattactc 60  
 tcgaccacta atccaaaaga gaatgtcaga agcccatgta gagcaattgg aaccatcaaa 120  
 ctcttcatg gatagtgcga agcttgaaag taaggcctca agtatagatg tgtcagaaac 180  
 tacggtagac gccataagac acacaaacag aaccggcaac aacaaagaac gatacagcga 240  
 aagttcagat aaacaaagga gtgcaagcaa tgcaactctg atggccacta aact 294

<210> 24034  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 24034

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 cagacaacc atctcccttt acatcattgg gggtgccact tatgctgcca gatacctcca 120  
 cctttgggtg tattcattga tagattcaag cctctttatg cacatgttct gtagttgcat 180  
 cctatccgga accatatcac aattgtcatg atacttgcta acgaaggcaa ccattaagtc 240  
 ctaccaagaa tggactcgtg aaggtaacct agtagtgaac caggtaacag ctaccgcaga 300  
 aagactttcc tggaaggaat gtattagcaa tttctcatct gttgcatatg ccccatctt 360  
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<210> 24035  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24035

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 agcaaaaaaa aaaaacacca caaaaccaa caaccacaac aaacaaaaga aaaaccgcac 180  
 accgcaacca aaagaaacag ccccaaagca agaacacaaa acccgcaaaa caaaaacaaa 240  
 aagaacaaca gaacaaaagg acaacagaag aaaagaccac aaagcccaa aacc 294

<210> 24036  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<400> 24036  
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 tattcctaaa cctttaccaa ttaataaatc actcttttaa ggcttttact aaattgtgaa 120  
 gagaatgagg agtataacag aaacttaata gagagtaa at acgtaaatta gatacacact 180  
 ggaaagataa tgagtatgga acaatgaatt aaacacccac gagttttata ctggttcttg 240  
 acaaccgggc ctacatccat ccccgagcgac ctgcgggtcct tg 282

<210> 24037  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 24037  
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 ctacaagtaa attagtgttt tgtaaatgct ttgtacagtt tgctatgtaa tgaattatta 120  
 agtctttaca tatgcttttt tattacaaga gtagaccagt tctccccctg ggatgaagtc 180  
 tcaaagcagt tgatattcat ttacatttg atttagaata aattacacta accacccttg 240  
 aggtttcgtg taattacaca aacaccccat gctgtttaac catacagtca cctcctttgt 300  
 agcgggtgta tgtaacatat gaggaggcgt aattgtatgt taaaacttat aggg 354

<210> 24038

<211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24038

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 tttgattcaa atggcaagta tggctaaagt ttattcatca tgaagcttac caaaaagaat 180  
 gcgagataga caattatttt ccatgtactc atatatcagt attagctggg tgcctccac 240  
 acaacatcca taaagcttaa caagattggg atgttgaagt ccagatatca gtcccatctc 300  
 attcaciaac tcacgatttc cctgtttaga ttttgaagaa agctgctnta ctgctattat 360  
 tgtaccatct gataataggc cctgcatcat gaac 394

<210> 24039  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 24039

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 agcctatgtc attgacgtgg aacaagtctc aacgcttaag gaactgattg aggtactagg 180  
 cgcaggataa gttgtcttaa cacatgtatg tatcatgtat tggatatacg ctttagatga 240  
 tacgatatga tgaagtggat tcatgatagc ccttggtgaaa tcaattacct attatttata 300  
 gaggagagcc gctgctatgc ttaatctcta atgaagaaac tattatatat atatagactc 360  
 cgactatcat gactctgacc aattctcat 389

<210> 24040  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24040

agctttgatg atttccagan attttcagtc tcaaaccctg aggtgctacc gattttacat 60

tcactctggga tggttaataac atttgctagc acactttcaa tgcctttttt cattaatggg 120  
 tgaaattctt acgagttttc ctcaagggtt taaattacat ttagtgacgg ttatacagaa 180  
 ctccaaaatc ttaatatccc agaaaattgt aggcaaagtc agttgcagac tgtaatttaa 240  
 aactgtcacc ccagtaaat gacgtgggcc ccacttaagt tactgagttt catctcttat 300  
 cttgtgggtc ctatgtaaat tccactcaat aagggtgttg gacacaattt gtagatagtg 360  
 tattggtaac cattatggag gatttgcttt cttttt 396

<210> 24041  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 24041  
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 ccctcaattt tcgttcaaag ttagtcttat ctatatttta taaatcatga ctttgatctt 120  
 tgtatttttt ataatcatct ctctttatgg aacatatgat tctagagtca aagacgaaat 180  
 tcaccaatta tataaaatac gatgatcaaa attatttttt ttaaaatata gggattaaaa 240  
 cctccaacac aaattaaagg acttgtgaca catttgacct ttggattaga ttatatatcc 300  
 agaaattcta tgccactgaa atatgattct aggcacataa tagatgattc atgacatacc 360  
 caagtgacta agtctgctct t 381

<210> 24042  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<400> 24042  
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 cccaaatcaa aaccctcaaa gtcacgacc tctcaaacia tagcaacgaa ctctacggca 120  
 acctccctgc ctggctccct tctctgccca acttcttcga aatctccttc gacgcatacc 180  
 gcatctccgg ctcttctctg aagtcgctca caggatgatg acgctcaccg acaaccgcct 240  
 taccggaag atttcggcga aactggcgaa gctggacttg aaggttgcgt acttgtgtca 300  
 taatatgctg gagggatgatg ct 322

<210> 24043  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 24043

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 ctaaaaaaaaa acataaaatt tcgtataagt aatgtacaaa tccaaaaata attgataaac 120  
 aaaatcatat tgaattcaag tcgttaaagc acaaagtata tataaaaaaa gagcataata 180  
 ttaaaaaatg tatagattag gtcttcagtc ccatagctta caaatctatt ttaagtccaa 240  
 gcctataaac gaaataaaat aaaatttgga caaaataaga taagatttga tgaaatataa 300  
 tctggataaa ataaaatcta aattgaataa aatctggata agataagatt tgataaaata 360  
 aatattatta ttattattgt tagttaaaca gttat 395

<210> 24044  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 24044

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 gaaacttcca gaattggccc atatgctttc gaagatatga taaagatggg taaggatgct 120  
 ggagaggagc ttctttctcg agccggacct ggctttttca gtcgttaaca atccaccaca 180  
 ttaaatggcc aacacaatac ttgatcaggg aggttgacag gtcagctctt tcagttgact 240  
 gcaccccaag tatgtctatt cttcaacat gttgtataga ctaaaatatt cagctgagtt 300  
 ggaaaaataa gccactcatc atggccaat tgggtgtatct taagggtgatt ataaagccaa 360  
 atttttgtat tgggtgtgtg attat 385

<210> 24045  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24045

ttgcttgact aggcgagttg attttagcct tagtttcact ttagttatta gtcaattcaa 60

ttaagaatga gaaatcccaa agagaaaatg tccgattgat ttttcgcttt attttactaa 120  
 aaggcatttt tttattatta tattattatt ttacctcttt ttttatttcc aacgtgggta 180  
 cggcacgacc gaatggtcgg aattcatttt aatcgaaatt aacgaatgat acaattcaaa 240  
 cgatcgggtgg aaatttattn tattttttaga ttaggcgaga aacgacttaa ataaatggct 300  
 taagcacgtc aaaaggggggt ataaaaagcg aatgacaacg agaataataa tacatgaaac 360  
 aaaatgtgga ccaccacggg tacatagaat ga 392

<210> 24046  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 24046

tgtctgatca aagagagtgg aagccagtca tcgatagtct accctcgccg gcgcccggga 60  
 tcgccctctt tccaaaagta gacgggctag tggatcaacc ggcgatcata tgctcgtctt 120  
 gcttacaacc acagcacgga aagcccggtc gcagctcgat tggtcgatgc ctatgacacg 180  
 cacgaccgga aacgctacaa gagcagcacg agaactatct gctgcacacc cgctcctcac 240  
 gtatggctgg gcacccacac cgcacggcct gacatagact catctcgccc ctagtacgcc 300  
 accacatgtg cgctgataaa gggatcgaaa cgcgggaata acccctggca cgatcggaag 360  
 gacgtccgtc aaaaggcccc ccgac 385

<210> 24047  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24047

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 aaggatcaag tcaaattctac aaccttcgat ggctacataa ttgtattcat taaaccatca 120  
 agcagcatgt cctcatttat tgagatgact tttgagaccc tatgacattc aaacaaaatg 180  
 cctttaaatg atgaaatcat ttcacatca taatatacaa aagcatatgc attctgtatt 240  
 tcttaagcaa catgggtgtat atcaagcaaa ggtgtcgagt tgcacacac cctactacta 300

attata

306

<210> 24048  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 24048

tatctttatc taaatatatg cttagttatg acctcctgat catttccaat gacttagact 60  
caatgcatac tttgaagtca cctatgccac tgattggaag cttttaatct gttagaatca 120  
cttgttagaa agcatctcct caatttgacc atcttggttg taagaatcca catttttctt 180  
atcatatgta agcatgtgct tattagccct gcattgcac aattacatac aatatatcct 240  
taatatctaa gtaatggttg ccatatatta tcctatcttg aaagacattg atgattctac 300  
aatactgaga gatactatac atacaactaa cttatgctaa ttgagagaaa ataacgaaat 360  
aaaattaata gattt 375

<210> 24049  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 24049

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tccggttcac cttatcaaca gcgctggtag tggcaacttc aaccgcattg gcttcatta 120  
tcttcttcat gctcatcatg gctccatca ttgcggtcat ttgctcttct atggcctcct 180  
atgtcggcct ccattctgctc ttgcacctcc tctacttcac ctattactct tgctctagca 240  
taggttcggt aagggcgccg taaagcgtgt tctttctctt ttttataaca atgattaagt 300  
tcccccccc cccctttttt caaggaaaga atgcaatgag caatgcaacc aatgaacaac 360  
atggatgtat gcgaatgatg cac 383

<210> 24050  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24050

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 tggatccctc cctgtatgtg attgggagaa ggacaatcag ttagttgatt atatcaaata 120  
 tttgattcaa atggcaagta tggctaaagt ttattcatca tgaagcttac caaaaagaat 180  
 gcgagataga caattatttt ccatgtactc atatatcagt attagctggg tgcctccac 240  
 acaacatcca taaagcttaa caagattggg atgttgaagt ccagatatca gtcccatctc 300  
 attcaciaac tcacgatttc cctgtntaga ttttgaagaa agctgcttta ctgctattat 360  
 tgtaccatct gataataggc cctgcatcat ga 392

<210> 24051  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 24051  
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 aacagagcag aggcagaaaa ctttgcccaa aacacaaatc aatatcacag cttttcacac 120  
 tcaaataccc caataacatt ctcttcgttc caattcgtaa accgttggat cgactcgaaa 180  
 attttactgg aagtctctat tacataagtc tacattttga ccgttgggat ctgctagcaa 240  
 atatccagaa ccccatatgt actacccttt ccaccaccag ccatacacia gcatttttct 300  
 gcacatatac aaaattctgc tgcacatatt tgacagcaaa attctgcata aagtgcagat 360  
 tttcgaaacc acacttgccc tcac 385

<210> 24052  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 24052  
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 tgttgtagtg actggctgct taactggaag tgacaatctg aaaaggaagt ttactcagtc 120  
 ctttttcta gctccccagg acaaaggcta ctttgttttg aatgatgttt tcagatatgt 180  
 tgatgagtat aagtcagttg atattgagtc tgtgcctgca aacgatgctg ctgatgaaag 240  
 tgctccaaca gatgcttttg tccccagcc tggtaaactt ttacatctgc tggttatata 300



tgatcgtatt cctgttgttt ttcattttct tcctctaaca ttttgcttat ctttgtgtaa 360  
 cttgtaagtg tgagttttga aacttttact ttgatta 397

<210> 24053  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 24053  
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 ctttgaagaa cagtcgagaa tctttgcgta attactcacg gaaatgttac ggaagcgctt 120  
 cggctcggat tttcttcacg gaactaattt tcctcagcaa attcgaaaga gagagaagtg 180  
 cctaaggggc tgaacccttt tcttcttcac ttcttccctt atttatagca aaatagggga 240  
 gaagcttgcc gccagctcg cccaggcgag caagggttgc tctccagaa gcaacaacct 300  
 tctggaggaa tcttctggag ggccaagtg cgcttggtg ctattcacac ccctctgttt 360  
 actaaatgc 369

<210> 24054  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 24054  
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 agcacatatt cgtggagtgt tgggttattt attttaaaaa agggtcagtt tgggtactgta 120  
 tatcttaaatt ttgagttaag attatctttt caaaataatg gtcttttggga gtatgagaca 180  
 tgattttgaa attttttctg actgattgaa gtatgtcaca tttaaatacat ttatataaaa 240  
 ctatagaact cgattaatgt tccaaaaaaa aaatgttaaa aatgggatga aaagtaagtt 300  
 ttacaagcca ctgactatt aagatctatt atctgatttt ttttcagtgg ttcatgaact 360  
 cactttctac tgaattttac catgtaattt a 391

<210> 24055  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 24055

tagcttcaac attcaatttc gaggggtctcg atatattacg ggactcaatc ggacatccga 60

gaaaaaagtt attgtcattt gtatttgctc agagcatcaa cattcaattt cgagcgtgctc 120

gatatattac gggactcaat cagacatccg agtaaaaagt tattgtcggt tgaatatgct 180

cagagcttcc gcattctatt tcaagcgtct cgatatatta caggactcaa tcagacatcc 240

gagtaaaaag ttattgtcgt ttgaatttgc ttagagcatc aaaattctat tttgagcgtg 300

tcgatatatt atgggactca atcggacatc cgag 334

<210> 24056

<211> 391

<212> DNA

<213> Glycine max

<400> 24056

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actaacctag ggaattaaaa gaacttaata gttgagtgtg actgaaattg tggcaaccaa 120

aagtcacccc aacagccatc aagtctgcc ccatTTggTc tcccaaaagg cttatgccta 180

ggttgccaat tggggccctta ttacaacttg aactaaacca aactaaagcc gttttagtgtg 240

attaaccac aatataTTTT tggTcagcca actttacaag gattggacca ttatttagac 300

aaattaaaca ctctaaaatt gagacaaagt tgtgtcattt agtcctcctc catttgggtc 360

atggtacaac tcacaacctt tgacttttct c 391

<210> 24057

<211> 390

<212> DNA

<213> Glycine max

<400> 24057

ttagctttga tgcaacatat ggagatgtta atgaaacaac gagatgatgc gtcctatgag 60

aggTtggaTc aaatggagaa tagagatcat aatgaagaag aaaggaggag aagagggaaT 120

gatggTgtTc ctagacaaaa ccgaattgat ggttttaaac tcaacattcc tccatttaaa 180

ggaaagaatg atctggaggc ctacttgag tgggagatga aaatagagca tgttttctca 240

tgcaacaact atgatgagga ccagaaagtg aagcttgctg ccacggagtt ttccgactat 300

gctcttgtgt ggtggtacaa gcttcaaaag gagagagcat gaaatgaaga gtccatgggt 360  
gatacatgga cggatatgaa atagatcatg 390

<210> 24058  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 24058

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tctatctcgc cagactctct tacctctcaa cctatctctc ctccaccag tgtttctctc 120  
tctactcact ctctctctac acattctctc tattattcgt gcctaatac acattccata 180  
taaggatat taggacagga gcagattact attggagtca cccaatatg actgggtcag 240  
tggtcttctc gccataacc aatccttaaa attaatgggt cttattccca atagatatgt 300  
ccaagttcgt gtgccttgct taatcaaagt ttcaaatgt tcagcctaca aatcaattta 360  
ctatgctatc aaatgtgcc ctgatagcaa gaa 393

<210> 24059  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 24059

ttgctttgaa aggttctctt gcatcattat ggaggccaat aaaaaattaa ataatcatt 60  
taaccttcca tgtgaagggt tcaaaccctc aaactaatca gacttttctc tccttttatt 120  
gtttgaaaaa ttgcacatat gaagggaatg ccaaaccaag tccctaattt cttcaattat 180  
gggaaacaag aatgcatatc cgagtgaata gaacaaaaag tcagtgcata tgaatcaatt 240  
aatcacagag caagaatgaa acaatatcaa aacgaacata gggttagaag atccaaagaa 300  
atagataatg ctcatgacaa gttatttact aaagatagtg aaaggaaaga aaagaataat 360  
ctcatccata ataataacaa aacgtgtatg agaaa 395

<210> 24060  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 24060

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acagtccecta cagctaactt gaatatgtga agcaatgaat cactatcatc aacaattgta 120  
ttaagctaac ttcaactgca aagagaaatc acattcacta attggcctat tctagagtaa 180  
ctaggctaaa aaagctatgt aaaaaaaaaa gataaaatgt tattatcaga taaacttatt 240  
tttatttgcc aaattcaaca tgaactacat gcacatgaat caaggccttt agcttttgat 300  
ctagccccct caagaattga tcggaaaatg gatcccaaac atgaccttaa ctggctaata 360  
atttattagt tctatta 377

<210> 24061

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24061

ggaggggtgt gtcgtacact gacannccng ntttngaann gcgcgtggtc ctactgagcg 60  
cagcagtttc ttattttaac cccaacgac tgggcggggg ggtttacctt aatccccctt 120  
ttatcccaac actatgacct gctaccgggg tctaccgccc actgatcgct ttcaccactg 180  
gtccttaciaa gtcgccgata ttcgtgctaa gcccacatca cttacgttcc aggaccgagc 240  
agaatccttc gaacccccag atactgagca tgtcctctgc cgatccaatt taaattatgg 300  
gctaatttac ggaacgccat gtcgcgctg ctaagaaggt caaaggagc gaaaggattt 360  
actactccga tgcgacggaa caaacg 386

<210> 24062

<211> 390

<212> DNA

<213> Glycine max

<400> 24062

agcttgatga taagctttct atagagctag aagtgacagt gaaaatactt gtaactttgt 60  
gaaaaggctt gtggaaattt tgaaaatcac aattcaactc tcattcttat gatatttgcc 120  
tttaciaaagt ttatcttggt aaacttgta aactcctgaa actcttttat tgtacatagt 180

aattaatgga tttgatagtt caccttttga atcaatcatg tttggatacc accgtggtaa 240  
aatctatctc agtaaaacta cgatcccga ctcgtcaacc gtgggaccat tgtgaaattt 300  
ggaccaccac cttcaaaacc cattttcgca catcacttgc cgtgggattt atgaaataat 360  
tgttttgcag agagaaatta gtctgcacg 390

<210> 24063  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 24063

agctttattt tctacattca cgactacaca caaaataagg gagttaagta gtcattgtgtt 60  
tacacatcaa gaaagacaca ctcatccaag atatatatat ggtccaaaag gttcttgcag 120  
cactaatcca cgcaccaaag gagaaataag ctaactaaca acatacacac aggatgatag 180  
aggtttggtta acacattatc aatcaatatc aagactactt gcatcaccca atggcttgcc 240  
ataatgtcca actgcacttc gcaaattata gagatggcta atctcataac tcatgattca 300  
acagtggatt tatggtatag cagacattat tgatgcaaag cacatacaag cattattatt 360  
a 361

<210> 24064  
<211> 483  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24064

ggaagataaa aagagaaagg agaagggatt ataaaaccca aggggtgtgat gatcgagana 60  
cncgggtgag nantggcggg gggatagaag agggagggaa gatttagtta agaaagaaan 120  
aagaaaaggg agggaaaagg aagaggaatg aagaatgaaa ggaggaaaga gaagagaaga 180  
ggggaaagag gatgaaggag aagggggaga gggaggatga gatgaaggaa agaaagagaa 240  
gatgaagaga gagggagagg gagaaagagg aggaagggaa agagaaagaa aagatatgaa 300  
aaaagganaa ggaaggaggt ggataaagag aaggaaanga agaggaagg agaggagga 360  
gagggaagga tagatgaaag agaaggagga gaagaaaaag gagggaaaga ggagaaggat 420  
agaaaacaga gtagagaagg aaaagaaagn aaaggaagaa gaaggaatag agaagagaaa 480

gag

483

<210> 24065  
<211> 399  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 24065

agcttgcttc aaagaggtcc aggaaggaca aggcagccga aggaactagt tccgctccgg 60  
agtatgacag tcaccgcttt atgagcgcgtg tacaccagca gcgcttcgag gccatcaagg 120  
gatggtcggt tctccgggag cgacgcgtcc agtcaggga cgacgagtat actgatttcc 180  
aggaggaaat agggcgccgg cgggtgggcat cactgggttac tcccatggcc aagtttgatc 240  
cagaaatagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300  
tgagatcctg ngtaaggggt cagtggatcc cgtttgatgc cgacgctatc ggccaactcc 360  
tangatatcc gttggtgttg gaagagggcc aggaatgtg 399

<210> 24066  
<211> 385  
<212> DNA  
<213> Glycine max  
  
<400> 24066

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tatagggttg acctcccata agagtatgca gttagaactt tatagggtga gctaatactg 120  
aggagcatga accaacagat ttgaggtcaa atcctcttca aaggggagtg ggtgatgcaa 180  
tcctccctag gaagggacta gtcaccaaag ccatgagcaa gaggctccaa gaggattggg 240  
ctagagctgt tgtagaaggc ctaggattc tcatgaacct tagggtagat ttctgagccc 300  
atgggccatg ttgtgtccac ttatctttgt acatattaga ttaggatttc attatttttg 360  
ggccttgat ttagggctcc ataata 385

<210> 24067  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24067

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accaccaacc aactaaaact tgtcatctct caacatcacc tttttttttt ctcttcagcc 120  
aataaaaatt tcccagtttg accactcaat ttccagtaac agtcaactat gacttgatta 180  
atgagaggta ataaaagtaa ttttttttat aggggaaaca aaggtagatt ttcttgccaa 240  
agtcaagaac taattccttt aaggatttaa cctcttcaaa caaatattta ttcatatacg 300  
ttgggcagaa acagannata ccaaacacca tataccttgn gcaatggaca tgtcttanaa 360  
tgctttccaa ggacaatgta gtaatttaat ct 392

<210> 24068  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24068

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taaacgatga agcttatacc aaagtccaaa acattcacat atttttcccc tttttcaaaa 120  
tatgaaacta cttattaaat tattataatt attttttggt tttttatcgt aagaattaaa 180  
gataatatta agatatttat aacacttatg caccatgttg aaccaactaa attatacctc 240  
atttctaatt atttttggtt gatatcaatt ttttaatctt aaactatatt ttaattctta 300  
aattgattat taaatatatc atatttataa aacaaatctc catacattga gtcaaattct 360  
ntaaataata aattttatct ttcaatatat tagt 394

<210> 24069  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24069

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gtgagtggct atagtagcca tgctgctagg gttttggaag aggttttagag ggagggttag 120  
tctttggatc ctcagccatg acaaagctgg gtgggtttcga gatccagtca gcgtgaattg 180

aggagatttg ctagtggtcc aactactccg aggggtgtgg atcattttga tgaagtagtg 240  
acctgacgtg tgtggtegat ggtgagtgtg tngggtttgg aggctaattg ggcagatgag 300  
aagtggatta tgaggatcca ggagcaggaa gccagagagc gcgaggcaat ggtttctatg 360  
gtgaggccaa tggttcccca tg 382

<210> 24070  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 24070

tagcttgtaa gatttgcaag atcatcttcc ttgacaactc cttgaaaatt attgccatca 60  
atacgcagag atgacaattt agagagtgtg ccaatacttt gaaatggatt tccactgaat 120  
ttattaatag acagatagag atatcttaat gatgaaagtt ttcaaaatga tcttggaaga 180  
gcaccaccaa ttaagttgtt ggaaaaatct agcatgtcaa tagttttaaa agccccaatt 240  
tgatctgtca gattgcctga aagttgtgaa ctccgaactg caagtgttgt gagtccatgg 300  
gaaatacaag gagcaagaat ttctaaaagt tgattaacct gttggtttag tttgagatat 360  
gataaaccta tcttccttaa gtt 383

<210> 24071  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24071

tagcttcata agcaagcttc caacaagtgg tatcagagca caagagcttc aagtaagtgc 60  
tccttaaacc tccactaatt ntcagcttta ctttctcctc cattgttggt tcttcgtttc 120  
tctccatgta tctcctcacg tgtcttgtgc tgaatgttgt taacataatt ttttagaagt 180  
tccaccgatt aagcttgcta tagaagctag atttgatttt ctatggttca aattccttgt 240  
tcttgaacca tgaattgtgt tgagtttatg ttcctttgag tttacattgt caattttttt 300  
ggctgaaacc tataccataa aattccttac aaaacattta agttagataa aaccctcaaa 360  
atthagatg acatattcac cta 383



<210> 24072  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24072

agcttcaaca tcagaccact tccaggggtgc tggaactact tcacatggac ttgatggggc 60  
 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggttgat gatgatttct 120  
 ccagatttac ctgggtcaac tttatcagag agaaatcaga cacctttgaa gtattcaaag 180  
 agttgagtct aagacttcaa agagaaaaag actgtgttat caagagaatc angagtgacc 240  
 atggcagaga gtntgaaaac agcaagttta ctgaattctg cacatctgaa ggcatcactc 300  
 atgagttctc tgcagccatt acaccacaac aaaatggcat agttg 345

<210> 24073  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 24073

agcttgcttc tacactaaca cttttcgaaa ggggagtcac catattacca tgttcgtgct 60  
 gagtgtatca tgtgttggtat caagtggcct cagaataatt aagaaagggg ggttgaatta 120  
 attattacta gacctttact aattaaaaat tacctttctt aggcctttac tataatgtta 180  
 agaaaataaa gaacagaaat agaaacttaa ccaaagtaa aagagataat taaagtgcac 240  
 agcggaaatt aaaagagtag ggaagaagaa gacaaacaca caagagtttt atactggttc 300  
 gacaacaacc cgtgcctaca tccagtcacc aagcaacctg cggtccttga gatttctttt 360  
 caaccttgta aaatccttta caagcaaa 388

<210> 24074  
 <211> 544  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24074

aagcgagcat cagccgtaca cgttttaaata agaattngtgt gtacacttca tacaacaaa 60

aancacnaag gagtccttga tgccctcgntc gacnancnca anncttacgc gacacccgcg 120  
gaacctatac agtcaacccg cacgcatgcc aacttttgtt tggatcaaga agagccatac 180  
gaagccgccc gtgcctaagc caccacaacc tggaaggcca ctcatcttat acatgacaat 240  
cttagacgag tcgacggggt gtaagcagaa gcaacatgac gaatccagaa agaaagagcg 300  
cgtcgtacac tacctgagta aggagttcac gaccggtgaa aagagccact ccttgctcga 360  
aagaacgcgc cgcgccatat caagggcatc cactgcctaa cgacacgacat gctgagccat 420  
actaaccggc cgtatccaag acggacccgg ctaagtacat ctctgacaag acagcactca 480  
cgggacaaag cacccggtgg aaaggcctgc catccgagtc cgaaagatcc gacgccacca 540  
cccg 544

<210> 24075  
<211> 391  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 24075

agcttagctt atgtacctgg gtgttgccca atttcatcat atcttctgta atactcacca 60  
cctctatcat atctaataat ttttacattt atgtctaatt gcctttttac ttcattgtag 120  
taaatttcta aagcatccat tgcctaagat atctcgggca gtaagtagac ataaccgtaa 180  
tgtgaataat catcaataat ggtgataaag tatcattcct tttcgaaaga actaacatca 240  
aaagatccac aaatatcagt atgcacaatt tcaagaagct gagtgcttct tgtagctcct 300  
ttctttgtat gttttgcttg ttttccctta atacaacca cacaatatatt tagatccata 360  
naatctagat aaggaagaaa ttgattcttt a 391

<210> 24076  
<211> 303  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 24076

atgaccaata aaaacaaaaa caacatgaat nnancggggt gtctctgcac aacacggccg 60  
cgcctaagca cgagcacact gtcaaaaaaa gacggcggag agaaaagccc atcacaagaa 120

gaagagcaac gacacgaaaa gaccacacga aaaacgaaca caaacgaccg cgaaccgacc 180  
 ggcgacgcag acggagaaaag cggcgaggaa cccacaaaac acaagggtga aagaccagac 240  
 caaagacaag acgccaacc acacaaccgc accacagaga aagaaaccaa aaccgccaac 300  
 acg 303

<210> 24077  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 24077

agttttatat gatgaaccaa gcaattttga tgatgcaaaa tgccaagtg attgattcaa 60  
 gacttctaga tcaatcatca agaatccaat ccacggttta agattcaaga gaagaaatca 120  
 tagaagcaac aagccaagac ttcatattgg ataagtatta aaagaatttt ccaaaaacca 180  
 tatagcatag ttttgtttta caaatgaatt tatcaaattt tctaaggtta ccagagtgat 240  
 tactctctgg taatcgacta catgttggca ttaatcaatt accaatgact atattggttt 300  
 tcaaatgtc gtcaatgatt tgaacgttcc aaat 335

<210> 24078  
 <211> 180  
 <212> DNA  
 <213> Glycine max

<400> 24078

ccccccggtc atatagcacc cgccgctgca gctttttgtc acaacacccc cgaaggggag 60  
 cttgcattcg atggaccctt ttactatcaa gccagggag atgacgcca acaatgccat 120  
 gtggagtact atttataatg taagccgcat gatagatcag tgcatttctt caccgctac 180

<210> 24079  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 24079

tatcttcttt gcctaacaag ccaacttaca acagcaagcc ccatgagact catcataacg 60  
 atgcacaggt taaagttgag tatgtgaaaa gattgtatga ccaagtaaag gtgcaaattg 120

caaataagaa tgaaagttat actaagcaag ccaaatagaa gcttcaccgg atgacgccga 180  
 tcgaacattt cctaatacgat tgaatagaat aaacaactgc tgacatcgtg acgtgatata 240  
 gccccgactg atattcttct gtcgacattg tacaattttc ttacatacg ctaaccgatt 300  
 atgtttatta tggtagagga agtctcttgg tttggtgttg cataaaaaat ttacaacgta 360  
 agtcggctgg gttttttcgt gcgtgctcaa cccg 394

<210> 24080  
 <211> 134  
 <212> DNA  
 <213> Glycine max

<400> 24080

gctggccctc taccaataat catagtggac agctaactct cgtatttttg cgtacctcct 60  
 gttatcctta tttatacccg cactcaactt agaatcgtaa gctcctataa cggcattttg 120  
 atcttcactc tccc 134

<210> 24081  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 24081

tatcttttta tacttgcata gaaagcaaaa gagaaaagaa gaataagctt gatctgttat 60  
 tgaagtgtga aattgggttaa taacatattg ttattgcaac tatatataca caagttactt 120  
 gaaataacta actaattaga gttctattca ttaaccatga tcaagttaaa ctactcatct 180  
 atcgaatgctt atagaaaaga tcatgtaatc aatgaaatac atcataattt ttttatagtg 240  
 gatgtatcct accactatcg aactattatg tgtttaaagc tagaaaataa actatatata 300  
 taatggaaat caatttacta gtacagattg taaaagaagt attgtttcat tatagttaaa 360  
 aaggaaattg atgaatcatc tt 382

<210> 24082  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 24082

tgtctgttta tattgccatg ttgggacgag tgagacatat cctttctgtc ttacggctat 60  
 tgagatgatg tctgggatgt ttatatgctg aaatcgctca tggaaaactg ttagagatga 120  
 aaggtagagt ttacctatgc ttggaaagcg aaattgctgg gttatgaatg gataaagagc 180  
 gacgctttga tggttggaag gtttaactctg gattcttggg caaacggagt tctatagcga 240  
 gttaatccta tctcgaaatg tcatttagga cttatgataa agcttggact gtgctagaga 300  
 taacatctat gatcaaagtg aaccc 325

<210> 24083  
 <211> 227  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24083

tttgctttct tatatnatac taaacgtaat cgagaacgtg ggtgaaagtg tccttcttct 60  
 aaaggggtgtg acaagcttgc gggaggctag aaatcttggga tatcaaagtg gcaagattta 120  
 tgactgctac aacaatgtgg ttttaatggt ctatatataa cccgctgtgc attacaacaa 180  
 attaagataa gattatgaat tttgcataga atgaaatccc tctcctt 227

<210> 24084  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24084

tagcttacct cactttccat ccacgagat tatggataag ctaatgcacg attgttttgg 60  
 ttttttgagt nttaaatttg agtatataat taagttaatt gcttgaaggt aaaattgtat 120  
 tgtttatagt gtttacatgc agttgaaaca attgtctgat ttaaagaata ctttatgatc 180  
 tacaacagga gtgtacatat agatcaattc agatngaatt gttttctaatt tgtattatct 240  
 tttgaactga attagttgga ttaaataaca ctgaattggt ttttttaaatt aagttcaatt 300  
 tgaaataaac ttattttcaa ctgatnttaa aacaagttcg attcaattaa ttaccaataa 360  
 tgttttttat a 371

<210> 24085

<211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24085

agcttccatc atgtcaagac atttatagta gtcaagagga gactactttt ttcccttctt 60  
 ctagtgggag tgaagatgaa gcaaggggtg aagactctag tgaggaagtc tacctcaatg 120  
 aagaaggtga cgtcctaata gttagaaggc tccttgagg ccaaacttgt gatctatccc 180  
 aatcccaaaa agagaacatc ttttatacaa gatgcaaaat tgtagataaa aattgttctg 240  
 tcattgtgga tagtggatct tgttgcaatt tttgtatcac aagattagtt tccaagttga 300  
 acctcactat cattntccac ccaaaacctt ataaccttca atgcctcaat gagcaagtgg 360  
 agatgatagt taaccaataa gcacccatt cct 393

<210> 24086  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<400> 24086

agcttggttt actctgtgtc ggacggctct cgcaccgcta tttcatcctc ctgcgtccac 60  
 ttttatatat caccctatgt tatggaaagt actggaagag aataagatcc actgttggac 120  
 aaaccttcgc ttatgggatg atagtctact cgaccagcaa tctactatct ctctcttgat 180  
 tatcggacat cagaagagta ccatcttctt catagaaatc ttctgtcaag gcaatatctg 240  
 ttggagctta ttgtggagaa tgcattctatt gaccatgagc tcctttt 287

<210> 24087  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 24087

agtttacata tattccccat gtgataatct gaacaagaga gaattatggg aagcactaag 60  
 ccagctaaga caccaagatc ctgagggatt atgggtgcttc ttcggagatt ttaacagcat 120  
 tagacaccag tccgagagag aaggggtggc tcacaggggt atggaagcaa acaacataac 180  
 tgatttttagt gaatggctag ccgacctaga ggtagaagaa atacctagtg tggggagaag 240

attcacatgg tttaatccaa acgggactgc aaagagttaa ctagatagat tttttgtctc 300  
 tcatgaatgg ctcaacaaat ggccaggctg cacccaattc atcttggatc ggaacttctc 360  
 ggaccattgt cccatactta tgagagctaa gaacattgg 399

<210> 24088  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 24088  
 agctttatgt ttttttctcg tctctcaact agcgacgtat tatctcccc tttttcgctt 60  
 aaaaaccttt gctgagtttg aaattttgcg actatgcgct gagcgcgat ggcactaag 120  
 cgctagaagt gtctgggtgc taaccaagcc atgggtggcta agtgccattt cgccaggcta 180  
 taagttctct atgttgcttc tttacgctga gtggacacc ttccactaat cgacaacaac 240  
 tcgctaaacg agcctggtgc gcttatcag aaccatcagg cttcaacttc gctctttatc 300  
 attacatgtg tctctgctaa tataaccttc caatagatga ttagtatgga tggacctctg 360  
 cccaaaacta gatgccaaat t 381

<210> 24089  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 24089  
 agcttgtctc agcgtttatg cgagacggag accaatatgc tagctatcat cgccaagtac 60  
 caagaagagt taggtctagc cgcgccccac gagcatagga ttgcggacga atatgcccac 120  
 gtatacgcgg aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180  
 atgtggatgg atcggtttgc tcttaccttg aacggtagtc aagaacttcc ccgattgtta 240  
 gccaaaggcca aggcgatggc agacacctac tccgcccccg aagagattca tgggcttctc 300  
 ggctattgtc agcatatgat agacttaatg gccacataa ttagaaattc gtaggaaact 360  
 tgtatggtct ctcagacctt gactaga 387

<210> 24090  
 <211> 388

<212> DNA  
<213> Glycine max

<400> 24090

tagcttcggt gcaagccagt ggttggagga gaaggctgga tggatgaagt gatttgtgga 60  
gtgcataatc atgaattggt caagtcatta attggacatc catatgcggg gcgattgact 120  
aaagctgaaa aaacacttat tgctgatatg acgaagtcca tggatgaagcc aagaaacatt 180  
ctgctaactc tgaaggaaca caatgccaat agatgtacga ctattaaaca gatatacaat 240  
gcaagaagtg cattctgttc ttccataaga ggaaacgatc ttgaaatgca acatctgatg 300  
taagcttttg aacgtgatca atatatttat tggctcagaa tatttgatga agacgtggtt 360  
tgagatatct ttggtatcac cctgattc 388

<210> 24091  
<211> 329  
<212> DNA  
<213> Glycine max

<400> 24091

tatctctttt tctaacaggc caacttccaa cagcaagccc caagagactc agcataagga 60  
tgcacaaacc aaagtgcgt atgtaaaaa attgtatgac caagtgaatg tgcattatgc 120  
acagaagaat gaaagctatg ccaagcaagc ccacaagata aggaaggaag tggacttga 180  
acccggtgat gatcttgac atttgaggac aaattgtttc caagaaggag ggaatgatga 240  
gaatcctgaa attggccata tacaggctaa aggcccatgt ggagaatggc gaatgcccaa 300  
gttgagaacg atcaagcccc cgagtggat 329

<210> 24092  
<211> 168  
<212> DNA  
<213> Glycine max

<400> 24092

ttgctttatc atctgaccac tttcagggag ctggtgctac ctctcattga cttgatgggg 60  
cctatgcatg ttgataacct tggaggaaaag atgtatgcct aggcattgtc ggatgatctt 120  
tccacattta cctggggtaa ctttatgtca gatagatctc acaccttt 168



<210> 24093  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 24093

ttgcttgggt aatcttcacc tgacaaacca atgttgaggt tgagatatcc ccatagtcca 60  
 aaatctaaat gatctaagaa atagcacgcc tccaattcga ggactaggag gcctcctaatt 120  
 cacaaaagaa ctctgtcctt cctatcagat attgacaagg tgccatctta cgtgacctat 180  
 cacatcccag ttccaccacc atggtaataa aatatggaat gctttacgtt tccaaaaccc 240  
 aatattacat ttgcctattc atctatgggt agtcgatcct atattacatt tgcctatatt 300  
 ttctacaagg gtttatattat aacaagctta aaactcaggt acatttatct tgggggtaag 360  
 tgtagacta tccacatata tcacatggt 389

<210> 24094  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 24094

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 tgtctcattc tgagtcccggt cgctcgtatt cttgggtgggt agatagccac ctaccaaaga 120  
 attcaaaatg gctccaggaa aaccttgcaa gtcactctct cctgtatatt atgtgtgttt 180  
 ctacaattat gctagaggaa tctgaatata ttgtttgaac ttgttacatt atctgggttag 240  
 gaaattgaga ccacaataga ggtccatcaa atttgtatga aattgagacc acaatagagg 300  
 tccataaatt tctgaactac gcatgcgtgt gtgtattgta ttcatacatc tttctattcc 360  
 tccaactctc ttggattg 378

<210> 24095  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 24095

agcctatgca tccggaattc ccggatgagg acatcatggc cttgttcgag gaaaagttgg 60  
 acgaagatcg ggacaaatgg actgtatggt ttgacggagc gtcaaacatt ctatgtcatg 120

gcgttggggc agtgttgatc tctccggaca atcaatgtgt acctttcaca gccaggctag 180  
gattcgactg caccaacaac atggccgaat atgaagcatg tggcctagcc gtccaggcag 240  
caattgactc cgatgtcaaa ctactcaagg tgtacggcga ctcagcgttg gtaatccatc 300  
agctgagagg agaatgggaa actagagatc ccaagctgat accctacaaa gcctaca 357

<210> 24096  
<211> 297  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24096

agcttctcaa ggaagnantc ttgaganaac tgacttgata agcttctttg agacaacttc 60  
cctgagaagc tagagcttat ctacacacac ccttctaaga acttagctcg cctccttgag 120  
aagccttctt gagaagagtc ccaaagaagc tagagcctta ttacacacac cctcttatat 180  
agctaattctc acccccatgc ttttaattcat gaaatatatt agcaaaagcg cctttaccaa 240  
aactacgcca aatgcccaga atactaggct taaaccctat tactactaga ttggcca 297

<210> 24097  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24097

agcttggttat taattcttag taattatggg ggattggaat gaagttgtag ctaaattcta 60  
atagaaagct taagaatgga aacataacta gcatggaaat atttttcata tgaaaatatt 120  
actaattaaa atgtagaaag gaattaagtc cagctatatg gggcctacta gatatcataa 180  
attattgaat aaaattgtaa atttctagcc aaacaagggtt aatttataga taataatata 240  
tatctttcca tgtatttaaa atttagttta atttttctat tgttttgaaa attgggctag 300  
acccatccat ccaactagtc aaattgggaa ccaatntatc aacagggtcta ttaatagaac 360  
aaaaataaat caatatcaat aagttaat 388

<210> 24098  
<211> 391

<212> DNA  
<213> Glycine max

<400> 24098

agcttatttc ttcaattcca atgcattgtg atagtcaa at tgctatatct aaagtgacta 60  
gcaaaatttt aatgaaaaaa gaagacactt aagagtgaga cataagtcta taagaaattt 120  
gatttctcat gttatcattt ctcttgactt tgtcagggtca gaaaataata ttgcggatcc 180  
gcttacaaaa ggggttgacgc gtcaacaagt atttgagtcg tcgaggggaa tgagattaaa 240  
gccattatt tagttacaac aatggacacc cgtctccgtg tgattggtga tcccatgaat 300  
ggagttcaac gggtaacaac gaaattgttt gttgagtaaa gtacaccaa atgaaatttg 360  
gcggagttgt tccgtctctc attcctatga c 391

<210> 24099  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 24099

agcttgaatt atcgttatta acacgatttt ttaatcaatt gagttaatag atcaattatg 60  
ttataaaata attaattgtca ttatatataa cactaaattt tttaatgtat atttaattga 120  
catataagtt tacataatat atattgtgac aattaatttt gatctaataa tttttttaca 180  
tatataaatt tttattaaac ttgtaattct tatttaaaaa atatattgtt aaatcgaaat 240  
taattataat aagggtcaaaa acagaaattt atttactata ataattataa aaaactataa 300  
ctaaatttat taattttttt aatctttttac taaaaatttt gagtgatata gattgacaat 360  
ccgtatacgg attataaatc tatatgttta tt 392

<210> 24100  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 24100

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aatcccgata tccagttgcc acaatgatct cgaaataaac ctccaaatcc aactcgtcca 120  
gggttaccaa atgagctacc atcaatgttg atctttattc tcggtggtgg aggaggctcc 180

cagctaacat gcttgcaagg tctaagtcga acttaatggg gcatagttct acaaatatca 240  
 ttgaagagag aatgaatttt acttaataca tgtagagat tccattgttg atctctaaaa 300  
 attcctgtat ttctagcctt ccacaaagtg tcgtaagttg ttgcaaatag agtctcgta 360  
 tgtcccttaa tgttggaat gagctggta 390

<210> 24101  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 24101

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 cactctctac acttgagaa atttattaaa aatcatgaat ttttatggat ctacttctt 120  
 atttaatgag tttctctcct taattttag tttttaacaa attttaatca ataacaaaat 180  
 acgtgttaaa aagagtgtgt tgctaatacct tctcagatta tcataatcaa tttattgggt 240  
 acaaacattt ttgtggatca ggtgtggctg gagaagcgtt atgttgggtc acgtcacaca 300  
 tctgaatggg tcaatacagc aggaagaaat gttaagacgg ggcttattgc aagtgtcatt 360  
 gtgtctcacg taatggattc aaatagcctc atag 394

<210> 24102  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 24102

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 gactacgtga gctcagttgg aggtgggcaa caggggatgg tgggtttatg cgcgcattgt 120  
 ggatgaggaa agcttggtgt gcaccatcgc ccgaccgcca cctagtacca catgtgatgg 180  
 gtaccccata atcctacaag cttgagatga ggaagtgttg aagggtgaaa cttcctgctt 240  
 ttattgttga ccacagagtg gtacctggag atatgtcgcg ggggtcagga gaccttgggg 300  
 acgttaggtg ggtgtctatt gcccaaaacc aaacttgacc aattccgacc caaccgggc 360  
 atattcggtc agtgagaacc tgtgatgtac c 391

<210> 24103  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 24103

agctttgggg ctgaggacct atataacaac accaagggtt tagtttggag ggttttcaga 60  
 gaggacaata attctagggg tttagaattc cagtttttac tgttcacgcg cactgttcac 120  
 gtagaataaa attcattttc tgaaattccg tttctgcttc aatctacaat ttcattttct 180  
 actaattaat ggaaggctaa gtcttcagcg ttgttttctc ttgaggacca aaaatagctc 240  
 tctttgaggt tttgttatta ctattgaatt ctgatcaatt tttcctcttc accaattact 300  
 atgtattttt tgctattaat ccatgcatgc ttagtgcttg attaattgtc tctgcacata 360  
 atttacgttc atgcttaatg atcagtttcg t 391

<210> 24104  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 24104

tgcttttctt tgaatggatg actaaaagggt cggatgtaac tacacatgca accgtgacat 60  
 cttacatgga gtggctccat cgctaactca ttgatgattc aaggcgatct ggttcagagt 120  
 caccacacga tttgatgtat cgcgcacaacc aattccgagc tcgctaattg agagaactat 180  
 gtaagtgttg aataggctct aactaaacgt aatggaaaat aagagggacc acctctttat 240  
 cgatagcatg taacttactt aagacatggt agcaaataata tatgcatgac cagtgaacat 300  
 catgtgattt tatacctaca catagtcac aat 333

<210> 24105  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 24105

tatcttggtt taaccaaagt cccctaattg ccgtgtcatg tcggcgcca acaaaatgtt 60  
 gctcgatttg atgtccctgt gaataacaac ctgggcccaa ccgtgggtgaa tgtagctaag 120  
 cccctctgcc acgtagacaa ggatacgacg gcgttgctcc caccacaaag acttctccga 180

cttatctaaa acccacttgt tgagactccc gttgggcatg taatcataaa ccaacataag 240  
ctcgcctccc tttctgcacc accctctcat tagaaccaag ttcttgtgct gaagcctacc 300  
catgcttgaa atctcctcca tgaattcccg caaccctttg cttgaatagt gggtcacgca 360  
ctttaccgca atttgcgtat ggggt 384

<210> 24106  
<211> 387  
<212> DNA  
<213> Glycine max

<400> 24106  
ttgcttgaga cttaattgct ttgttcttcc cataagcagt agtcagcagt gcactctcac 60  
ccatctccat tacaagcctt tcttcttcc gaacacacat ggtcattaat tcattgatag 120  
accatttata tttatgtgtg ttgtaggaaa tcttaaattgg cccatattca tgtggaaggg 180  
tgttcaaaat gaaatgcact atgaaggact cagacatata aacctctagt ttcttaagtt 240  
gagctgaaat atctcgcat ttcattgatgt actcagcac acctttcaca ctgggtgagcc 300  
gaagagaaga aaacttcatg atcaaagtgc ttgctaaagt cttatctgaa gtgatgaact 360  
gggcatcaat ggctttaaagc aagtctc 387

<210> 24107  
<211> 345  
<212> DNA  
<213> Glycine max

<400> 24107  
tatctttgtg gcattccttc gcgtcacttt aaggctttat tggatacaaa cactcattaa 60  
tatgcaggat catgcacgtc gttgtgtact cactagaaca aggtacacgc tgcatatcgc 120  
ataattaatg cagtcaaata tcgagatgtt acgtcataaa agttatgaat gagtgtcgag 180  
gattctacat aatcaaatta acataatacg tctaccacat atcaciaaatc tggattgaca 240  
ttacacatga ttaataaaat catacttatg agtattcggt tgattttatc tgactgttac 300  
gggtaataata cgaggatgatc gaaatgagtg cggattttta ctgac 345

<210> 24108  
<211> 371

[illegible]

<210>	24109
<211>	395
<212>	DNA
<213>	Glycine max

agcttttagga	cactgaagca	taaccagcaa	aagtactcat	gtatttggcc	aagctaaata	60
cccgagtatt	attgttccat	atcatccaag	gtgaactcac	tactagaaaa	tagactttta	120
acatcgggta	ttaactgatg	ttgaaactgt	caacgttaaa	agtctcgacg	ttaacatcgg	180
ttttgaaaat	cgatgttaag	taaattacac	aacatcgatt	ttgtacaaaa	tcgatgtcat	240
atcataaaat	attaacaaaa	aaataaaaata	tgaagaaaac	cacatcattn	tttttttaaaa	300
tcgatgttgt	cagtctaaaa	catcggtttt	tcaaaaaatc	gatgtttttt	tactcacaac	360
atcaatttcc	caaccgatgt	tatgaatcaa	ttttc			395

<210>	24110
<211>	395
<212>	DNA
<213>	Glycine max

agtttcttat ccaagacaca ttcttggtgg cgaaactcct tctttcatga cttattccct 60  
agtagatgaa gtctcctctc acctcttctc ttttatcttt cgctgcattc ccatgataga 120

aaatcaccat tgaaggacct cattgaagct caaagatccc gcctccatag aaacttaaca 180  
aacaagcttt gaaagaaaag tgtctttgtg tgagagtgtt atcatttctt gtaatcattg 240  
agtgaggtac tgcagtttgt agagtgatat actatttga gtgagttaca atcttgtaat 300  
catttttgtg atagtgaat attttttga gacggttcta tgaacgtang caagaggtgc 360  
cgaaccacgt taaattctct tgtttgttat tattt 395

<210> 24111  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24111

agcttttctt cattctctgg agggagtggt gaaagatggg ttgtactacc ttgctcccag 60  
gtcctttacc agctgggatg acctcaagaa ggtgttcttg gagaaattct tccctgcac 120  
taggaccatt gccatcagaa aagacatttc aagcatcagg caacttagtg gagaaagctt 180  
gtatgagtac ttggaaagat tcaagaaatt gtgtgcaagc tgcctcacc accagacttc 240  
tgagcaactc gttcttcaat atttctatgg ggacttanca acatggagag gagtatgaat 300  
gatgctgcca atggtggaac tcttggtgat atgaccactg ctgaggctag gaatttgatt 360  
gagaagatgg cttccaactc ccaacaattc agtgc 395

<210> 24112  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24112

agcttcagtt tgaacacact tgattgcac ttgtgaatcc ttcaaaaaga taacaactac 60  
gaggtgaaaa gccataaaag atgatgagct tcaaatagtt cattttttta gcaagcaata 120  
gtgtaggcta tttcatgaca attttatata tgtaggaga tttgtgtttt taaattgaag 180  
agtatgtgaa ttgtgatatt gcagaaaaga tatgcaagct cgtgtttgac aattgaaaat 240  
taagagtaaa tttttttttg aaaaaatgaa taaacattaa cgaatatctt cttattgggt 300  
tattaccata tagggttatt accatataga actgagctaa ctcatgagat gaagttgagt 360



tcattccttc ttttaaagtt actgaactat nttatcgag .

399

<210> 24113  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 24113

agcttaagaa aattgtttta aatattatth aataaaatat tatcaagtta tctgtcagtg 60  
catatgtatt ttttgtcaaa ttttttaccc ttttataatt ttattgaagt atacaacaat 120  
attttaacaa gttgaaataa taatatatcc acattattgt ttcctttaat tactatttaa 180  
tcttaaagaa ttttcacacc ttaaactagg acaccatggt ctctcttttt taaaaaaca 240  
tttatgtgct aaaaaagata attttatcac tgtataatth taaatcattt aattatgaat 300  
attaaattat tttttatcat tctacttgct tttttataaa aaaattaata ttaaattaaa 360  
aaaaattgtg tcaaaatttg ataattaaaa aaa 393

<210> 24114  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 24114

tcttctttcc taggaagcta tctagtctag aaagagaagc atgtataaca ctcgttgcaa 60  
ctttgatgaa tgaaagtctt atgagataca ctacacagta ccacttctct ctttctctaa 120  
ttccttcaat atcctgcgtc cctcttgctt ctgtctttac ctccattaaa gcacctctct 180  
caagctactt atccatggaa attttcggtg gtgaagctcc ttcttccttg gcttatattc 240  
tagtggatgg ggcctcccgt atcctcttct cttttccttc cgatgcatct ccattggtgaa 300  
aatcaccat cgaaagacct catttgagct taacca 336

<210> 24115  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24115

agcttcatgg tgaatcaaag gtgattcana ggtgttttga tgataacagt gatgataaca 60  
aaagatgatg acaaagggtga tgacaaaaag ctcaaagatc aatcaaagaa caactcaagt 120  
aatcaaaga tcaatcaaga acaattcaag agttcaacat aagaatcaag aagaattcaa 180  
gactcaagaa gaaagtctag agacaagaat caagatctca agaatcaaga tcaagattca 240  
agactcaaga ttcaagaatg aagagaagac tcaatcaaga taagtattaa aaagtttttc 300  
anaactttga atagcacatg agtttttgac aaaacccttt accanagagt ttttactctc 360  
tggtaatcga ttaccagaat gtcgtaatcg attac 395

<210> 24116  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 24116

ttgcttaagc acgagtaaatt tgctacatgc ttaagcgggtg ttttaagggtgc atccttatag 60  
tgtatgctta agaaagttat gcaaaatgct ttttttttta aaaaaatggt attccaagtg 120  
tgataaaatg aatattgggt catgatatga gtatttatat atagtatgga gttaatttta 180  
tgctaataatc atgcacttca cattcatatg acgattttga tgtggagatt gtaaaaattc 240  
aaggagttgg atgtcttact atgcttaaca aactattgat ggattcataa gtgtgatgaa 300  
tatatgaatg gttaatttat gatatgagca tttgatgaaa tattgatata atgaatagat 360  
aattatattg ataagataa 379

<210> 24117  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24117

agcttctttg agaaaacttc cttgagaagc tagagcttag ttacactcac ccctctcata 60  
actaagctca cctccttgag aagcttcctt aagaagattc ctaaagaagc ttgagcttag 120  
ctacacatac ctgtctaata gctaagctca cctccttgag atgagaagct agagcttagc 180  
tacacacccc ctataatagc taagctcacc cccatgacag aaaacattgt gataccctaa 240  
tttcgtccgg ggacctttgc ttgatgacat gcgacctttc tttggtcctt gtgaggtgct 300

tggcatccat cattaggcca tntgtgaaag tccaggacat gccggagaac caaaaaatat 360  
 tgatgcacaa tccgtaagtg tccgtgacac acc 393

<210> 24118  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 24118  
 tagctttaaa ataatatatg gcacttttaa ggtgggggtg ggggtggagg aaatagaata 60  
 tagacatgca tgcatttaat ttcctactaa gataaagtaa caagctaatac gttgaatcta 120  
 tattctgtat agttatgatt accatgtaga aaagcatccc tgcctcccta ttggctctca 180  
 ataaaatctg atcatatatc ttgctcagtg ctaaaatcct ctttaattaaa atttcccctt 240  
 ttagttatag acagtaaaca gccaaacttg gcacttttgc tgcaattgat ctagacaatg 300  
 ccttttgtaa ttaaccattt atttaccgtg ctagatatga aacatgtcgt tatgtgggcc 360  
 atggctgaac 370

<210> 24119  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24119

tagcttgcca cccagctcgc ccaggcgagc taggttgctc cctccagaag caaccacctt 60  
 ctggaggaat attgtggaag gcccaaattg gcctgggtgc tatttgcacc cccattttta 120  
 ctaaatacac ccccttgctc ttttttggtg atttttttcc gtaacgttac gaaactttac 180  
 gaatttcata acaatgcttg ttttctttcc gtaatgttac gaaaacttat ggattacgta 240  
 atcatccnct tttttgcctt ccagaacgtt acgaaactat atggattgcg cactaacact 300  
 tccttttaac tttcggcatg tcacggaact tcacggattg tgttacaatg ctttcttttg 360  
 acttccggca tgtcacgaaa cttcac 386

<210> 24120  
 <211> 344  
 <212> DNA

<213> Glycine max

<400> 24120

tagcttgccct caaagagggtc caggaaggac aaggcggccg aaggaactag ttccgctcct 60  
gagtatgaca gtcaccgctt tatgagcgct gtacaccagg agcacttcga ggccatcaag 120  
ggatggtcgt ttctctggga gcgacgcac cagctcaggg acgacgagta tactgatttc 180  
caggaggaaa tagggcgccg gcggtggaca tcaactggta ctcccatggc caagttcgat 240  
ccaaaaatag tccttgagtt ttatgccaat gcttggccaa tagaggaggg cgtgctgac 300  
atgagatcct gagtaagggg tcagtggatc ccgtttgatg ccga 344

<210> 24121

<211> 392

<212> DNA

<213> Glycine max

<400> 24121

agcttgatag gtggaaggag atgtatagaa ggagcacgaa attttgtgcc tcaattgagg 60  
tttaaacttt gaagtgtaat tctcaaata tcaaagttta aaaaatgcac acacatgacc 120  
tctatttata gcctaagtgt cacagaaaat tggagggaaa tttgaatttc tatttaaatt 180  
tcacttgaat ttgaaatcga atttgtggag ccaaaatttc actaattatg attagtgaat 240  
tttagctatg attcaaccca ctaatccaag atcaagtcca agattctcca ctaagtgtgc 300  
ttaagtgtca ggaggcatgt aaagcatgaa ggacatgcac aaagtgtgac tatatgatgt 360  
ggcaatgggg tgtagcaagc aaatgctcac ct 392

<210> 24122

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24122

ntcaactgaa tntacaacgc tccaatcaat ttcaaattgg tgtaatcgat tacaatatat 60  
tggtaatcga ttatcagtgt gtttgaacgc tgaaattcaa attcaaagt gaagagtcac 120  
atcatttcac aaaaatgctt tgtgtaatca attaccagtg ataagtttta aacaaaaatc 180  
aaaagatgta actattccaa tggttttcaa gttttttcta aaggttataa ctcttcta 240

ggttttcttg accagacatg aagagtctat aaaagcaagt ccttaacttg caattttaag 300  
aacaattgat tacaatattt tacctccttt gaatctcttt gaacatcctc ttgaatctct 360  
tcttctcttg agcgttntat agattaacga aggttagact aattaacgag aaata 415

<210> 24123  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 24123

agcttctttg agaaaacttc cttgagaagc tagagcttag ctacacacac ccctctcata 60  
gctaagctca cctccttgag aagcttcctt aagaagattc ctaaacaagc tagagcttag 120  
ctactcacac gtctctaata gctaagttca cctccttgag atgagaagct agagcttagc 180  
tacacacccc ctataatagc taagctcacc ccatgacaaa gtacatgaga atacaaaaaa 240  
aaaatcctta ctaaaaaaac tactcaaat gcctcgaaat acaaggctaa aaccctatac 300  
tactagaatg gccaaaatac aaggagcaaa cgaaggaaaa acctattcta atatttacia 360  
agaagagtgg atccaacctt gacccatggg ctca 394

<210> 24124  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24124

tgcaaaccac atgctcacca ctactagaag agaagttttc aggttggttc atataaacct 60  
cctcctctat atcaccatta agaaaagtca ttttcacatc catttggtgc aactcaaggt 120  
caaatgagc agctcatgcc aagataatac gaagagaata tttcttagat actagacaaa 180  
aagtctctct atagtcgatt ccttctttct gagtaaattc cttagcaata agtcttgcc 240  
tgtatctctc aaagttgcct aatgaatccc ttttggtctt aaagatccat ttacatccaa 300  
tggcctttgc ccatttaggc aactctacaa ggttcacaaac tttgttactc tgcattggaat 360  
tcattctatc cttcatggca ttataccata natntgacac ttacaaac 408

<210> 24125

<211> 356  
 <212> DNA  
 <213> Glycine max

<400> 24125

agcttctcca atgtcatcag atgtctaatt gttaacctct tgaacctctt ctaactcgaa 60  
 ggatagaatc cgagtaacag atggatcaaa gcagcaccaa acatgccata acacgtaaat 120  
 tcagaaggac aaatgtggcg gataacataa aaggcaccat ctaactaggg cacattttaa 180  
 tagtcaaaca acaatccaga tcttcacggg attagacatt ccatgcagat tttatgactt 240  
 gctgctcgat cggccaagtg cacaacctcg aagagatgaa ttaccatatt atctataaac 300  
 agctctccac tgatttctgc tgatatgaca gatgggtgat actgagcatc cacatt 356

<210> 24126  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 24126

tgtggattat gaattcaciaa gtttaaagat tacggttcca taagtttgtc atggtaagtt 60  
 tggaaaaaat gaaaaagtgc tgggtacaca agaaattttc tgtgtgcgca aagcaatttc 120  
 cctcttacca tatcattctg ggcttattat ggatatgggc ctcaagaaat cgaacccaat 180  
 ccaatggttt gaacaaatcc atcattctaa agtttcaactt tcttctattg catagtatag 240  
 ttaatagtat gactcttcct ccaccttat cggagccacc ctcaactttcc gattcattct 300  
 caccgttaaa cccaacccta gccatggata gtctccaagc cacttacaaa gacgaagaag 360  
 aagatgacga agacgaccca cagccgcaac caccaccaac caccgacgcc gattcactgg 420  
 aagccccctcc c 431

<210> 24127  
 <211> 206  
 <212> DNA  
 <213> Glycine max

<400> 24127

aatggcgaat ggcgcctgat gcggtatctt ctccttaacg atctgtgcgg tatatcacac 60  
 cgcatatggg gcactctcag tacaatctgc tctgatgccg catagataag ccagccccga 120



<211> 374  
 <212> DNA  
 <213> Glycine max

<400> 24130

agtttggatc agtggttatgt gcatggcctt cctcaatttg agaaaggaag actcgtcctc 60  
 ttctaattgc acaatatttc aggtcaagta aagggttttg agtttcatta atgggggaag 120  
 tacagacatt cttgttggtg cccttatcaa taatgacctc tttagtttca ctagagctta 180  
 aagaactaac atcctgttct ttgtggagat gaacaggtaa cacaaaatca cgtatgatag 240  
 aattgtatct tgatttcctt gacaaagtca atttatttta gaacaaatta cttaaccacg 300  
 ttcacacaat tagcagagta atcaatcaaa tatagcacac aatcactgta tcaccttgaa 360  
 gacacccacc tctt 374

<210> 24131  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 24131

atggcnagat aaacgcagaa ccacatttct gaactacgag tgctgatcca gcaagtgcaa 60  
 cgctcaata tgcgttatct ctgaatccac tactggtgtc tacaatgccg gtctatgcag 120  
 atgatattat agagacaggg aataatccta cctctgtcaa gtctgtggtt tccaaacgca 180  
 attacgagtt ctatgtcata gatgagcgag atcttgaaga ctatctaagc attgacgtca 240  
 cttctcatcc tgaaagcaca taattctcac tcaacctaag tatgaatcaa acatataggg 300  
 tcatactact gtagatgttc tgagcgttgg atagaataac gaaggttaga ctaattaacg 360  
 agaaatacgc cagtttagact 380

<210> 24132  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 24132

tgttttgcct ttatggcttg tacctcatca ctttcttccg aagctttaac ctcatgtct 60  
 ctcacagtct ttagatttgg gagccaatcc aatccttgtg tccggactct cagccactta 120



tgatagccgc cgatgatccc attactgctt cccctaagct ctctgtcctt tcttcacgcc 180  
 gcatcccatg ccttgcgaaac tccttggagt accctcgctg tgaggctcact gaaacccccgt 240  
 gcgatgaaag gcgtgatgct ttcgtctgat ggcaactcctc tcatggggta gccaaagctgc 300  
 cttatggcga ggacgggatt atatataata caacctcttg gtacatcagg ggaacatttg 360  
 gaca 364

<210> 24133  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24133

ngtacaatgg ccaaacatga tacatgttta ggatttgtat gtttcataga gcaaattggat 60  
 gcctcacatt atttccatga cacataggca aaaacgagga tatggaaatg gtatgcaaaa 120  
 ctggtgatgc atgcacctat gcgagcagtt aaccgtcgaa ttagtacgga catatgatgc 180  
 tgggagctaa gatttatatg actttatatc caacgaccca ggggtcccgc tatctgatga 240  
 tgtataagac cgtgcattca gccgagtgc ttagtaggcgc cccgggaaat ttcacagcat 300  
 tctccctgga ggggttgaca ca 322

<210> 24134  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 24134

tgtttagaaa ctttactgtt ggaaacttgg aaaagcaaag taaagaccat aaataatacc 60  
 agaccctaaa gcttaattta agaaatagat tctgaaatcc attcaaagaa gacaaaacta 120  
 gaatgtgaaa gtccaacaat atatatagat aaaattaccc atctcaactt tgaaaataaa 180  
 ttaagaaaat aaaaagagga aactagctga ttttcttgct ttgccacaca agtataaaaa 240  
 agcacagaaa caagggtata aatatagaat atataactaa aatgtagcaa tataacttac 300  
 aattaaagtg attgctcttg tatcttcac caccattatg ttacatatt gtagatcatt 360  
 gtgacaaaaa 370

<210> 24135  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24135

tactagatct tttcaaattt ccgtcattct agcctatctt tctgaagatg acttaagggtt 60  
 ctgtttggat aaacttttct aattattact aattgcagaa taaaataaga aggtaacatg 120  
 aattgaaatt ctcttataag ttacaatcaa cttatccaaa tcaactaaga aaggaaacag 180  
 aggaataaag gaaggacata atctgaataa agccacatgt ttgaatgatc tgctgaagga 240  
 aatgcttaga caaatttgaa atagattaaa tttagaaaag ggttttctac attgtaagat 300  
 aacttcaatt tgttttcata aacttgagct tcttaaaaat aaaattcagt ctagacctcg 360  
 ttgtaataag cctctgctaa aaaanttaca cctagacttg tacttggtgt catttntaaa 420

<210> 24136  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24136

agtttgttct atatcagaag gctagttgct acaaaggcaa tgagttgcta attgaagacg 60  
 gtgacaatgc tccactaacc atatatgcca aagcttgctc tggtaactt ttcaaacatg 120  
 agcttgaaga tttaaagcaa aagggttgagc tactaatat ggaccggtat gccatgaaga 180  
 ggttctaaag actgaaggaa tgtttctcta gtatagaacc tgatgaaaag ttacctgcag 240  
 atgcagttca ttatgaaatt ggggtgatgct atcaaaccct gaagcacact tgcttctctc 300  
 aagaaactct tttcaaacat ggtgngtctg atcatacctt tcatttat 348

<210> 24137  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 24137

taaaatatga attaaaacgt ccagattctg ctggttatcg attaccatat atgagtcac 60

gattacaccg tgcaaattat gtattcaaat ggtaataact gacgtaaatac agttatagcc 120  
 actggtaatac gattacatcc tctggcaatac gattaccata gagtaaattt gttggaaaaa 180  
 aaacttttta actttaattt cttggccgaa cccttagctt cttctattgg aattccatac 240  
 ctatttaata taccttttct aagactctag aaattggcta gatcatccat cttaaata 300  
 tataatttct ttgtcttaata aaagc 325

<210> 24138  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 24138

tgtttgggct tggaagacat ctgaacagaa ttcatttatt gaagaattct aatggtagca 60  
 ccaagtgcaa tttgatttga ctgaaaatga aaatagatac acaatcaaga taattaaaca 120  
 gaatatcact agtaagcaga tttatatact tgattataaa atgaccaaaa atccctctat 180  
 ttaagtaaca aaactcagaa tgtcaacaaa agcaaaagca gacagaactc aatttcaaata 240  
 tagcatagaa atagaggatt taaaagtttag gacaataggc tgcagaaacc ttcaaaaatt 300  
 atattacatt ctcatgatga atcaaacctt tgt 333

<210> 24139  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 24139

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 tttttttcct ccttttattg ttgatatgca gtagatttga ctgattcgga aaattatggt 120  
 caaccagttg atgataactt gctaacatta gataaagttc acaaagagga tgagggacac 180  
 gatccttttg atgactttga aaccaatgca attggaaaca tgcttcctga tgatgaagag 240  
 gaccttttag ctggcattat ggatgatttt gacctcagta aattgcccag tcaactggag 300  
 gatttggatg aaaatgatct gtttgtcaat ggagggggat ttgagatgga ttttgaaccc 360  
 caagagagcc tcaatatcac tatgt 385

<210> 24140

<211> 278  
 <212> DNA  
 <213> Glycine max

<400> 24140

ttttgcaagc ttctaagaat caagatcaag attcaagaat caagagaaga cttaatcaag 60  
 ataagtatga aaagggttttt tcaaaaactg agtagcacat ggatttttct caaaacatgt 120  
 ttaccaaaga gtttttactc tctagtaatc aattaccaga ttattgtaat cgattaccag 180  
 tagtaaaatg gatttgaaaa agttttcaaa tgaatttaca acgttccaat tgatttcaaa 240  
 aagttgtaat cgattacaat gttgtggtaa tcgattac 278

<210> 24141  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<400> 24141

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 agacattatt gcaaatttac aatgggggggt agaaaatatt gcaacaaaaa aaaatgtttg 120  
 tatacctatt attaatacacc tcattggaag aaccattaaa agtgtcatta ataggtattg 180  
 attcttgtaa ctgtgattct gaaaggccag tgttctttat tttattgggtc taaaaagtag 240  
 ctgaggtggt tatatagcac ccgctggaca cttcgcatat aatatacata tatggagaga 300  
 gttacgcgtt atcttggtg cggtggagct acttttcttc attcaagtta attaataatt 360  
 atattcatga gagaatcttt ttgtttgaat attcgcctcat atattcata 409

<210> 24142  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 24142

agcttccatc aagatgttag cctcttgagg ctttctttcc ttttatcttc tatgggagtg 60  
 aggtctaaga tgtgacctat gccttccttc gtaatagtca cgaagttctt cacttaggct 120  
 cttgcaagag ttatgactac tataggaggc atatttttct cttttcattt ctttcattat 180  
 ttttcttctt tcttctctg ttattttctt tctttcatct tgacttattt attccactct 240

tttttttcct ttttcttttc tctcttggtt ttctttccat aacttgaggg aactcaactc 300  
 atctaagatt ctagataaag ggtctttatg actagtagcc tcgccattaa cactagatga 360  
 atgatgactc at 372

<210> 24143  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24143

agttttattc aagacaaaga aatcaaagat attcaagatg gatgatcaag acagtctcta 60  
 gagtcttagc aatagaatat aaataggaag ggaattccaa ttgaagtagc aaaagggttg 120  
 gccaaagaaat ttaagttaaa aagtcttttt caagagattt actctctggt aatcgattac 180  
 gacagctatt aaaatttgaa ttcaaaattt gcattgagta atcgattaca catatatggt 240  
 aatcgattac cagcaattat tgaacgtttt aattcaaatt ttaaagcttg taatcgatta 300  
 cacacatact gtaatcgatt accagagtag attttcagaa aatattctca atagtcacat 360  
 cttntatatt gggtcttgaa tgggtatcaa 390

<210> 24144  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <400> 24144

gacactctga atactcagct tgtaagatta tggggtaccc atcacatgtg gtactttgtg 60  
 gcgattgggc gatggtgcac aacaagtttt ccacatccac aaatcgcgca taaaccacc 120  
 atcctctgta gccacctgc aactgaactc acgtactacc acgtagccca tattctcgtt 180  
 tctctcaaca ccagggtccc atcaatgctg ccaagctttc ccaacatcca agtgaatcaa 240  
 cattcaaaca gcacaaacta tcaagccaa gaaaacaggg caaaggcaga aaactctacc 300  
 caaagacacc aacaaaaatc acaacttggt ctacttaaa gacccagtc acatttcctt 360  
 cgatccaatt cgttgaccgt tggatcgact cagacattta ctggaagttt ctagacataa 420  
 atctacattt tgaccgttgg gatctact 448

<210> 24145  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 24145

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 acccgctctat tatctaagct cactctcttg agaagcttcc ttgagaagat tgctaaagaa 120  
 gctagagctt agctacacac acctatctaa tagctaagct gacctccttg agatgagaag 180  
 ctagagctta gctgcacatc ccctatgata gcgaagctca ctctatgac caaatacatg 240  
 aaagttcttg aaatgcccta ctacatagac tcttcacaat gcctcaaaat acaaggctaa 300  
 aaccttatac tactagaatg ggcaatatac aaagcccaaa caatagacga aaccattctg 360  
 atatttacac agatgagcgg gctcttactt aacctatggg cttacaatct ac 412

<210> 24146  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
  
 <400> 24146

agttttatact ttgtagaagc attctacaca tggattgaat tatgttttta gaaattttaa 60  
 ttttttttct agacttacaa gctctactcc aagcttgatt taaaccaaat attctttatc 120  
 ttaccaaadc atcgctggct ctaaacaat caactagatt ttttaaaga ttccacaccg 180  
 attaaaaagt atgattatct tacagatgta tatatcactt cacactttta ttatacaaga 240  
 tgttttgaga ggactttgta tctttacaag aatttacaag aagctttaca taaaagaatg 300  
 acttgatatag atgattcgtg tcttggtttt tcaaagcttc ttctatatat agtcttcac 360  
 tcgaagtatc cattgtctct caacggatgg at 392

<210> 24147  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
  
 <400> 24147

taggatatag gagagcattc attctcccaa tgcattgatt accattactc aaatttgtct 60

cactacacca accttattat tttgctactc ttttcagcac atgcactttc tttgatcatg 120  
 gtttaccoga gcttttattc ttcataataa caagatattc atttatttat tttgaagaag 180  
 taatagacat tagtacttgg ctggagttat accatatact ttgacttaca ttagcttgag 240  
 ttgtttattc atattcctgc tataaaaatt cacccaaaaa cactccccca aatttgggac 300  
 aaatttgtct ggattcatga tcaatctcct acaaccttat aaaggggagt tagtcaatat 360  
 catattcatt aggcttggat tctaatagaca aataatttac attaggcaca acaaggg 417

<210> 24148  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24148

agtttgcttc tacaaaaanac atttatgccc ttgtattaat ncttttgacc aaattaggta 60  
 aatacctctt cggaaagctc ctttacattg ataaagtcac tgtcacattc tctagtcttg 120  
 attttgacac tatgatgcca atttccacta tggagatgtg agtgcagatt gatttcatta 180  
 gtgtgggtttt tttcattttc ctcatcccaa gtattgacctg taaaagtgtg gcgatttagt 240  
 tgggtgtttct gatttgaagg ttggtgtgac attcacattc taagtaaggg ttttgttctt 300  
 aaattacaaa tatggtgtat gtattttctc tatcacagtc gaataggaat gaagggatga 360  
 ctggatttgg ttggtcat 378

<210> 24149  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24149

cttgttntat tcaaatacct aggatcatga gttactaggt ttgtccttct atgactcgag 60  
 aaacaaaagt gatctaataa caagcagaga tttaaaacgg actaggttgc ctctagtag 120  
 cgcttcttta acgtcttgag ctggacgcgt gatggcttgt cggtcattga cctagtactt 180  
 tgcttacctt tggctttgga ctaggtcgcc tattggctcg ccatgggtcg taagcaacgc 240  
 tgtaaccttt ttctggatga gctgatgtga actctagaag tgatggcgga gcgtctgttg 300

cccgtgctcg gccatcccta agctgctcgg gtgatatgtc ctgcacctgc cttgggacgc 360  
agttacttttc gatgaaagct cggctagtgtg ggggcctgat gacct 405

<210> 24150  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 24150

agtttcacaa gagggtatgt tttctaatta gaggagcttt ttctcacatt tttatctccc 60  
attgttactt ttaattaatg gaacttttta tcatgtttat gagttttttg ctttctcttt 120  
cactcctttc aatgatttca cagtttttga atgactgcaa tgggtgcctct gtaccatgga 180  
agctacgtac aggtgctgctg ctttcaaatt ccaaatactac gtgttttaaatt gttgtttacgc 240  
ataaatatgca tgtcatatccc tatattcgctc tggggactgt cattcattga tgtttttgat 300  
tctcactagc caaattgcat ggtttgacac tagttaccac acaaaatgaa ggatcattca 360  
atgtttttgat c 371

<210> 24151  
<211> 321  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24151

tgagatgacg aagcgtagaa aggggattct tcttgtttnt attcngggac cacagagtgg 60  
tacctggaga tatgtcgacac gggtcacaag accttgggga cgtcacgtgg ggtgctattg 120  
cccaaaacca atcttgacca atcccgaccc aacctgggca taaacagtca gtgagaacct 180  
gtgatgtacc taagcaagct agctcatgtc tgtcgacaga ttaaataaac aaagaccaca 240  
aagcaatgag gcttgtgcgg tggctggcca gctgtgaact ttgagttaat atgggatgtg 300  
gcctctggta atcgactacc a 321

<210> 24152  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 24152



agtttgtggt ttcttatatc tagagcaatc cttttggtga tccagcaaag cttctcatag 60  
 agcagcttgt agctagagca gctgattctg ccggttattt tcaacatcta attctaaatt 120  
 taattttatt ttcatcagtg taaatgctta tttgtcgtat actatgatta ttggatagct 180  
 aagtaacgct catgcaggtc ttatcatgga agagttgatg aatattccag ctgggaggag 240  
 aaggacgtac catgacgacg tgaccgcaat gtgtaatcat gctcgcgatg aatcagcgaa 300  
 cttcaaaggc atcaacttgc atataagact tgccacttca taaaaaaaa 348

<210> 24153  
 <211> 327  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24153

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 tcctcttcaa gaatgccatt acgaagtggg aacccataag tgatagctaa ggagagaaga 120  
 agtcttacta ttatggactt gataataggt gagaaagtct ctatataatc aattctatac 180  
 tactgatgaa atctcttggg cactaatctg gctttttact ttntgaccga gccatctagg 240  
 ttttctttaa ccttgaaaat tgacttacag tcaataggaa ctctattatg gggcaaggga 300  
 acaagcaacc aagtgtcatt tttaatc 327

<210> 24154  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24154

aaactcagct gcacaacata tactaaaatg tttttggtca ttataagtac taactaacta 60  
 acttccacta atatatacag ttactactcc gaatgaaggt atgaaccttg attaggctca 120  
 tctaacttac ctaattgaac taattacaca aagccatgcc caaattctca gcccaattat 180  
 tcaagtgtag ttttgacttc caagccaat ttgacaaaat tgaagctttc cagggactac 240  
 tcacatngag catttggagt tttgtagtat tctataggcc ctacacaagg cagatagggt 300  
 aagtaagcat aaaaatccaa aaataagcca caattatcaa ttgagctcaa tcattcttct 360

atgacgaaaa ctaagctaaa gtgagaatat atgggtcaaa gagatgtcta ata 413

<210> 24155  
<211> 158  
<212> DNA  
<213> Glycine max  
  
<400> 24155

agttatgctt gtttagactg atggcgagac tacggactta tacgcgcgag ctccccgact 60  
aaccggagcc gggccccgac ttctgagggg cttctcccac cttatgaoga ctatccccgg 120  
ctaggacatg gggtaggaga tacccatctt ggaccctt 158

<210> 24156  
<211> 412  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 24156

taaggttnta ttcttaggag tggacattta taactttcag gaaatctccc aaggacttat 60  
actctaacc atagtgatat aaccgctaag ctcaccttgg caatctctca aaccataaat 120  
aattctcagg tatttttcat ctttgatctt acaattgtga ttctctattc ttttggaatc 180  
gttggtgagc aaaaatatac tggaaaagaa gatgcacatg ttgtcacaaa acagaggaaa 240  
tcaaggatc ttacaacatt cttgctgtgt aagagaacat tttttgggcc aaaagggtag 300  
gaaatcatga tagatggtaa catgtgaatc atactgccga ccaattagat gggtgctagt 360  
gtgaattcat tgaattttat tctgtataaa tagccgtctg agaaagtgat ta 412

<210> 24157  
<211> 360  
<212> DNA  
<213> Glycine max  
  
<400> 24157

tgtttgcttg aacagtgaat tgggtgaaaa tgatatgcag tggattgttt tgtatgaaat 60  
gagtgtctac gaatgatttg aatgagcaat tgtataattt gaatggattg taatgattag 120  
ataattgttt tgatcaagct tgtagccatt agaagagaat gagcatgtga ttggaagtat 180

gactaaaaat gttagtcagt ttgtcagatt gattgtgaag gaatgcattg accatatccc 240  
 ggtgagagtg tgatccttaa attttgatag aaacaactat catttagtac tgatttttgc 300  
 atgaatctct gaagtatgga ctgaatgtat gaaattgagg atgatgaagg ctatgtttga 360

<210> 24158  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24158

tgccatgcga tagcggagag tttggagagc catctttacc tangggtggt cacgccaggc 60  
 acatcgacac atgagctgat cgaagaatgc cttaggattg ccaggagtgt cacacaagac 120  
 gagctagtat atgttagttc ccgatgcagg cagcgcacag atcagtcgta gtttatttgc 180  
 acattttata ttgaaatttg atgtatatgt taggattgcc taatctaact taatggatga 240  
 tattaggatt gtgatcaact cgctgcctat taaataattt ttgaaaagt gtttttttaa 300  
 atatgtttta aaatttaatt attcgttata ctaggtataa ttgtaagcac ctggttgatg 360  
 ttctctatat gaatcgatcc aatcatgaat ca 392

<210> 24159  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 24159

tgttttatcct tatggcttgc ctccggactt cccccccgt gccaccccg aagatttaag 60  
 ccaagcccct actttcgagg ggcaactccc accttatgac gactatcccg ggcaagacga 120  
 tgaggaagga gatacccatc ttggccccct gctccacctc aaagatccgt ccccccata 180  
 actaccccaa ctgaacataa tccgcatat cccggcctca cccacacccg taaaagaatc 240  
 tgttcccttc gcggaagata agggaaagat tgaggcgctt gaagagaggt tacgagcagt 300  
 cgagggccct tgcaattacc cattctcgga ttt 333

<210> 24160  
 <211> 398  
 <212> DNA  
 <213> Glycine max



ttactatgga tgatgctctc ctacaacctt agccaaagta gcatgagata acactgtata 360  
agctcacggt tcaagtcctc aataatacat tcagctcaaa ct 402

<210> 24163  
<211> 259  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24163

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gcaaatcaac tctctcattt ccacaggcca ggcaaaagca taccatccca gttgcccacc 120  
tttaacttga gctcacgcac tcctacgtag accttatact cgttcctctc agcaccgggt 180  
ccccatcaac cctccaagc ttctcaata tccaaaaaat tcgatttcat ttaccatgaa 240  
actaccctaa accaagaaa 259

<210> 24164  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24164

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tggcctttgt tcttcttttc tgagatattt ttccttatgt cagcttacgt aggtttatag 120  
cctaaccxaa acttcgcgtt gtttctcttg gtgcttacca ggctagtctt gccaccgttg 180  
ttcttgccca aaccattcc gggtcgttag ccgtacccca acatcacccg ggccaccatc 240  
attgtcgtat cagacaggcg aggttgccca aagtgggaat ctacggaggc aatgcttact 300  
acctcaaaag attggaaagt cgtttccaac gactcctccg cggattccac atatggcata 360  
gaggaagggc aacttaccag gacgtcttgc tcacccgata ctatgaccaa atgtccctcc 420  
actacgaact 430

<210> 24165  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 24165

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aggtctaaga tgcgacctat gccttccttc gtaatagcca cgaaggtctt cacttacgct 120

cttgaagag ttatgactac tataggaggc atatttttct cttttcattt ctttcattat 180

ttttcttctt tcttcctctg atatttttct tctttcatct tgacttattt attccactct 240

cttttttctt ttttcttttc tctcttggtt ttctttccat aacttgaggg aactcaactc 300

atctaagatt ctagataaag gggctttatg actagtaccc tcgccattaa cactagatga 360

atgatgactc at 372

<210> 24166

<211> 429

<212> DNA

<213> Glycine max

<400> 24166

tagcccacac tccagacatc ttcttgaaga tcccattggt cagatcatgg acaagtgtct 60

tgtgaagttg taaaccaaata ttcgagaaga tccaacggtt aatgaaggct gggaagcggt 120

tttaccgagg caacttcatg tagcttcttc aagaagcttc attaaaaggc ttcctcaaga 180

agcttccccg tggcttcttt gagaagcttt ctcaagaaac tagattctta tctatccaca 240

accttctatt aactaaatta acctccttga aaataattac ggataaaaaa taacataaca 300

aataatcaaa catcaaacat aattactaat aatatatata tatatatata tatatatcag 360

ggtgttacaa atgctaccag cacaaagggt ttcatgtcaa gcaaagacag atttcacaat 420

aaggaatct 429

<210> 24167

<211> 324

<212> DNA

<213> Glycine max

<400> 24167

agcacggaga gcaagcttag agtgagagca cagtgcagag aaaaagcacc atcgaaatgc 60

cataatgcag tttaatagca caaacgataa tgtaactgcc ataggcagtt atgccttatt 120

tttggcagtt ttgaatgcct cgcttaacgt gtcaactcgc taaacgagca tacatgatgt 180

ttaagtttcc aaacacatgc gcttaggggg caaactcact tagcccaatg ccaaaattca 240  
 tatgttcag agtagacttt gggcttagcg cgaagagttg gcttagcaag ttttgcattc 300  
 caaattggcc tgcaactctc gctt 324

<210> 24168  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 24168

tgaaggcaaa ctggatgcat tggttaactc ggtaatttag ctggtcttga accataaatc 60  
 tgtacctgtt gcaaggggtt gtggcttggt ctctctgct gaccaccata cagacctttg 120  
 cccttccatg cagcaacctg tagcaattga gcagcccgaa gcttatgctg caaatattta 180  
 caatagacat cctcaacctc agcatcaaaa tcaaccacag caaaacaatt atgacctctc 240  
 cagcaacaga tacaaccctg gatggaggaa tcacctaat ctcataggt ctagccctca 300  
 gcaacaacaa cagcagcctg ctctcttct tccaaaatgc tgctggccca agcagaccat 360  
 acattctctc accaatccaa caacaacaac agctccagaa acagtcaaca gttg 414

<210> 24169  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 24169

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 ttctatgtaa ctgcaagata ctatggatga tgctaaattt gtcaatttta tacatcgata 120  
 aatgactaag cgctctatcc tctgaagaag tgggtcatgc tcgaatccta tctcttctaa 180  
 agacaacaaa ctctttaatt ccaactcctt aagttgcata acaacaccta ttttatcacg 240  
 tgaaatgagg ctggcaagag cccaaatact tttcaagtga caactcccca atgttaagct 300  
 ccttaaattg ggaagtctat gaagaaacca aaagagaatt tcagtattct tcaattcata 360  
 caagacaagt ctctgtagtt tgtgcattct gtgaacacta acaatgtatt tctgcaacca 420  
 ctctgcttcc t 431

<210> 24170

<211> 326  
 <212> DNA  
 <213> Glycine max

<400> 24170

agtttttttga atttgattgt ggttccaagg tgaatttttcg tgcgaggagg atgagacata 60  
 acgaaacgcg taggggcgag cattcgcaaca tgtgcgcggg ctagtggcat ctacaataac 120  
 gtgtactgac ttacaatgcg ctaggtatctt tgattattca aatcttggag gtgttctctc 180  
 atatggacca gtagcggtttt tcttttttct gaattggacc actagctcgt ctctctggtc 240  
 taaaataatg atgtttatctt ttgttataga ttatctacat atattatttc atgcataaac 300  
 ttataacgca tgcattgcacg ctcat 326

<210> 24171  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24171

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 gtttctgtca caatcaagcc attattaacg ccccatatgg ggtgcaatgt gggccagggt 120  
 ttcgttctat agaatatatg gaaatattgc tgttgattct gaataagtga tcatttttct 180  
 ttatttcaaa attattgtct cctaatacat cgagtgtcga tcttattatt ggtttctcat 240  
 atttcaatca tgtcttggtt aactgcttga tatattgtga tgatgatatt tttgttacga 300  
 atagagaaag actcactggt gtaatcaca 329

<210> 24172  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 24172

gtgaatgagg ctgaagaagc tgctgcttat gttcattaag atcagggtga gattaattta 60  
 tctcagcctc atttgcaca agatagtgc atggagttga tggtaaataa ttgtcacaac 120  
 aaagtagttt tatctcaacc taatttggtg cagcactcca tttttatata ttacaattat 180  
 tcatgtttga catttacatg taggtccctg caactattgt tccaccaata gcaaggaata 240



agctaaccat aacaagagcc aaacaaagga aggttgctga taaagatgat gcagaaaact 300  
gaagaagcat tttttgttgc attttgaagg ttgctgaatg ttgctgaaga cccatttttg 360  
ttgcgcattt tgaatgttgc tgatgaagaa aactgaag 398

<210> 24173  
<211> 116  
<212> DNA  
<213> Glycine max

<400> 24173

ggcttcccaa cccaacctg tacttgatc atggcatgtg taacttcac ttcctttagt 60  
gtgtgactca atggatccat ctatggtcac tgcaaagggc aatgccagtc ttaaca 116

<210> 24174  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 24174

tcttggtctt taatacgtg caaaattttt gacgtcttg aatgcgtatt tagagcatat 60  
ttgtagctca tcaaaaatat ggggtcacia attgccccca aaaaatgtct gcttcgatcc 120  
gagatcgaag gaagatgaga agttcacatc ttttcttctt ctaccacttt tctgaaatg 180  
gcgacatgat tgcacgtatt actggtaacc gtcgctcga tctccacta cccatcatta 240  
attccacttt tctaggcaca aggggacact tgtcacgtg gggagtcga aaggaaatct 300  
gattcgattg aatctcgacc atcgattatt attaaaatgg ctttttcgct taagagtga 360  
tactccataa atagcgcaaa gaa 383

<210> 24175  
<211> 256  
<212> DNA  
<213> Glycine max

<400> 24175

tgtgtaacat tctttgtcga gcgggtccgat atattacggg actcaatcga tcatccgagt 60  
aaaacgttat tgacgttcga atatgctcat agactccgcc ttcaatttag agagtgccga 120  
tatattacgg gactcactgg aacatacgag gaaagcctta ttgaccgttg aatctgctta 180



tggagaattt cacttgatgc aacctaatac acatgggatg tagagtcagt tttccacaa 180  
aagaacggaa ctgggttgca accttgatg cgtgattgca ttagatatgg aaaggaaacc 240  
aatttgaata aaaatacgtc ttgcgatcaa atagcataaa aaaaaagtat cacgtatctg 300  
taaagatcta tgacaaagat tagtcagaag ttcattagcg caaataaatt caagtatata 360  
cttat 365

<210> 24179  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 24179  
atgctctctc ctactcagc ctaagcagat aaatttataa gctctccctc ttctcactt 60  
ttcttttttc ttctcctcca ttctccattg aaaccccaac aaagctccaa cctttggcca 120  
tcatttctgc tccaaatcgc gaaaggaagg cattttcggg gtcgtgaagt gcgtggctac 180  
gagtgggact tcgaaaattc acgtttgggt ggacttcttt ctctttaat tttcgtgggt 240  
atgggggttg gggagatatg atgggtagtc ttgctaggtt tctgctgtgt gatgattatt 300  
tgtgaagaca tttgctgaaa gctgggtgaa gatgccatgt ttggatgagt tagacatacc 360  
cattctgatt tagggttttt gtgatgatgt ttgagatgtt tatatg 406

<210> 24180  
<211> 362  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24180

acgtgagnga ncggcggcan accagaaaca cgaaggagag gaaagagaca cggggnncaa 60  
ggcaacaaac cgaggaagag anangaacag ccancaaggg gaggnnggn gagcagcaga 120  
aagaaaccaa cccagaacaa aacgngagc cagacacact cagaacaaaa aaatgcttct 180  
tgcttttctt gcatgagatg gaatgctcat cctgcactgt atgcactagt catacagaac 240  
atgatagtac tgcatatatt gagtgcacga cctcttattg cttgaantga tccataatcg 300  
actgcttatg acaataaat gtcttacatg gatattcaat atctctatg ctacacgact 360

<210> 24181  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24181

ntgatttctt ctgttccgga aacctttctt ttctcatgtg cacccaaacc caatctccgg 60  
 gttcgaagac aaccttcttt ctccctttgt tggcttggtt agcatagctt ttacttttcc 120  
 tctcaatttg atctttgact ctctcatgaa gcttcttcac atagtccgcc tttgcttgac 180  
 cttctttatg cttaaaaaaca gaaacattag gcaaaagatc aagaggagtt agtggggttaa 240  
 aaccataaac aacttcaaaa ggagaacaat tagtgggtgct atgaacagct ctattgtaag 300  
 caaattcaac atgggggtaaa caagcttccc aagtttttaa gttattcttc aaaactgtcc 360  
 taagcaaagt tcccaaagtc ctattaacaa c 391

<210> 24182  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 24182

agcttgaagg taaactagat gccttggata tcttggtaac ccaactggcc ttgaatcaga 60  
 aatttgtagc tgtcgcaaga gtctgtggtt tatgtctctt tgctgaccac catacagact 120  
 tttgcccttc catgcaacaa cctggagcaa ttgagtagcc tgaagcttat gctgcaaaca 180  
 tttacaatag acctcctcaa cctcagcagc aaaatcaatc acagctgaac aattatgacc 240  
 tctccagcta cagatacaat cctggatgga ggaatcacc taatctcaga tggcttaacc 300  
 ctcaacaaca acaacagcag cctgctcctt tcttccaaaa tgatgctggc ccaagcagac 360  
 catacattcc tccaccaatt caacaact 388

<210> 24183  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 24183

actcagctca acataaccac ttcgggtgct ggaactactt tacatggact tgatggggcc 60  
 tatgcaagtt gaaagccttg gaggaagag gtatgcctat gttgttggtg atgatttctc 120  
 cagatttacc tgggtcaact ttatcagaga gaaatcagac acctttgaag tattcaaaga 180  
 gttgagtcta agacttcaaa gagaaaaaga ctgtgtcatc aagagaatta tgagtgaacca 240  
 tggctgagag tttgaaaaca gcaagtttac tgaattctgc acatctgaag gcatcactca 300  
 tgagtttctc gcagccatta caccacaaca aaatggcata gttgaaagga aaaacaggac 360  
 tttgcaagaa gctgctatgg tcatgcttca tgccaaagaa cttacctata atctttgggc 420  
 tgaagccatg aa 432

<210> 24184  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24184

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60  
 gtggatggcg cctcctctca cctcttctcc tttgtcttcc gctgcatcta catggtgaaa 120  
 aatcaccatt aaaggacatc attgaagctc aaagatccat cctccataga agccccacaa 180  
 gcaagcttcc atcaagtggg aatcagagca taagagcttc aagtaggtgc tccttaaacc 240  
 tccattaatc agagcataag agcttcaagt agcttccctt tggttctctt ggggtcttgt 300  
 atataactct atgatgnttt tagtgtattt ttgctttaat gtatgcatga gataaatatt 360  
 tattcatttg atgcacacaa acacctacac ttt 393

<210> 24185  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24185

tcttagtctc acctgatnga attgtggcta cttcatgcac tcctctaata acaatagcat 60  
 cacttctagc actaaattgc tgggagtttg aagccatctt ctcaattaaa tttctggctt 120  
 cagcaggggt catgtctcca agggctccac cattggcagc atctatcata cttctctcta 180

tgttgctgag tccttcataa aaatattgga ggagaagctg ctttgaaatc tgggtggtgag 240  
 ggcaactagc atataatfff ttaaactctct cccagtattc atataagctt tctccactga 300  
 gttgtctaata gcctgaaata tcttttctga tggtcgcggt cctggaagca gggaaattgt 360  
 tttctaagaa tactctcttg aggtcatccc agctcgtgat ggaccttga gcaaggtaat 420  
 at 422

<210> 24186  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24186

agcttttatt tatgaacacc atggacagac cttaatatgt gtggcaacag acatggcaat 60  
 ggatggcaga tgatatcata ttcaatcata gaaaagaaag tgattntata tattctaaat 120  
 aaatattggt tgttcataat cattatgttt attattttgc taatcacagg tattcgcctt 180  
 actgaaaagg aaacaattca tttatgctta actgagattg agaatatgct acaagcaaac 240  
 agaaggagct tgcgatattt tccatccatg ccatacccaa taggatatgc acganaccaa 300  
 catcataata atctgatcca taatgaaatg acatatgaca aagaaatggt agcagaacaa 360  
 tacaacacga cataccaatt gctcacaggt act 393

<210> 24187  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24187

taacaaactn tntttatagt ttgagtttga ttnttttctc taaatttttt taaaaaaact 60  
 tgaatttgac ctttatagta aacaagtcga gtcgaacatt aaataggcca aaacaaagac 120  
 atttgacaaa ctgcttgact cattttctac cctaattatg acattaatta catgttataa 180  
 aagagtcaaa ctttttaatt atattaaatc taatacgaaa aataaggaaa atgaaaaaga 240  
 attatcattt ttaacacatg tggtgattaa tttgtatata ccattcaaaa ttctttgtct 300  
 aaaatgtag ctataattca aatagaaaat taaatnttgt ataactcaca taatgcgtgg 360

atttaagaag ccaccgtatt catcttgcaa agcttgggga agatcccaat aaaaaagagt 420  
cacaaatag 429

<210> 24188  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24188

agcttctatg atctccaaac ttgatgcaa tctcctgaaa ttgaatatta tggtagccaa 60  
ccatcgcccc ctgttttctt ctactgtgta gtcaccatca atagacaccc ccatgtcgac 120  
tctcttctct atgtcgactc cgattccatg cccacaccta tgccacctac tctcgacccc 180  
aagccagcac cactcccat ggtagctacc catggaagct ttgtaatgaa gtcacgcatg 240  
ctcgagcatg ccggctccat ctctttccat tgccaacaat tttgtttctc ctctctcaat 300  
ttctctccct ctcaactctg tgacgaccag aggaatgttc atagtcacag ttgtggaagc 360  
aaagctttcc aagtttattn ttgatgatg 389

<210> 24189  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 24189

gttgcaaagc acaaggaagc accaccagat gaggatgatta acctgttacc aggttcaaata 60  
gaaactttta atgattgtat gtttagctact tctctatttc acaagaccac cagggtccta 120  
cctctacatc gacaagggtt tgcttctac accctcaaaa gattccacac ttatgatcat 180  
gatggcctat tcatacttcc acaagtgcgc gagcgttgca tagacaaagg caaacaagac 240  
atacataaat agcgcaaaat ttgtcatcga aggaaagcaa atgcattgaa gaaaaatata 300  
taatttcata gttgcaaagt ctatacaacc aaaatgcagt agtgaagaaa agaataaaat 360  
aaacaaaagg caacctaacc ttggggttca tcaacaccct actcctccct agaac 415

<210> 24190  
<211> 385  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24190

agtcttgctt gtggagcttc tatggaggct ggatctttga gcttcaatgg tgattnttca 60  
ccatggagat gcagcggaag gcaaaggaga agaagagatg ggagacacca tccacaaggg 120  
aataagccat ggaagaaaaa gcttcaccac caagaatgtg cctcgaataa gaagcttgaa 180  
gaggatgctt taatggagga aaagaaagag agaagggagg agcacaaaat tgaaggaata 240  
aaagagggag agaagtggaa ctttgaagtg tgtctcataa gactttcatt catcaaagtt 300  
acaacaagtg ttacacatgc ttctatntat agattaggta gcttccttga gaagctagag 360  
cttagctaca catacctctc taata 385

<210> 24191

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24191

ntagtcttca tgttggtcat gttgttcccc tatctctaac acttcttctt cttcttcttc 60  
tgtgaaacta gtttagcatg agggcatata ggcagtttgt gacatatgat tgtaagggtga 120  
atacctggca tatcagatga ttggcatgtg aataggtttg tgttctgcg taggacatca 180  
gctatacatt tgtacttatg actggtaagg ttcgtgttaa gctgtgtaca ttgcctaggt 240  
ttgggtccga gctatagctt gacaagttcc tcaataggct ntgggcctnt gttaaatagt 300  
tcgtcacgca aatccacatc gaatatgtta tcttgatctc ccatacttgc tttgtaaatt 360  
gtcgggggtc ggattgggga cccgtcgtcc acgctcatga cttgactgct accaccagat 420  
gtgagataag 430

<210> 24192

<211> 324

<212> DNA

<213> Glycine max

<400> 24192

agtttgtagg attatggggg acccatcaca tgtgggtacta tgtggcggtc ggtcgtggt 60



gcacaacaag tttttcacat ccacaatgcg cgcataaacc caccatcccc tgttgcccac 120  
 ctccaactga gctcacgtac tcccacgtag cccatatact cgattctctc aataccgggt 180  
 ccccatcaat cctcccaagc ttccacaaca tgcaagcaaa acaacattca aacagcacia 240  
 gctatcacag ccaagcaaaa cagagcatat gcagagaact ctgctcaaca catcatacca 300  
 aatcacagct gttctcactt aaag 324

<210> 24193  
 <211> 521  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24193

cccgccacac gagaggagg cgaagaatgg gtgacgcccc cccccacag cggatagact 60  
 tgaacctga acncngaac naagaaacnc aagcggcaac aacgagaagc angacgcaga 120  
 gtgtgcacac cttgtngcaa aaccggcac gagtaacaag ctcaaagatga 180  
 agcccaataa ctatcaacag tgaatgagag gagggagggtg agacgctcca agaagaacia 240  
 cagaactccg acaaagataa cataacgccg acgcgctaaa cgctgacacc aacaaggcca 300  
 cggaaggacc tgtgtacaca ggcacgttga cgccgggtgtc agaacaacac acagcgactc 360  
 cgacggacta gtgcgcgcag gcactaggaa tcagatgtat gcacgcacac actggtggaa 420  
 gcggggcgact gcgaggaacc agcgcacact ttgacaacia agacagattg gtgcacaccc 480  
 acatgttagg aagcccataa agcgcgagta atcaataggg g 521

<210> 24194  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 24194

tggcaatata caaatactac aaggctaaca acatagaata tgaatacttt gctatccgta 60  
 gggatttcaa aagataataa aactaacgca gagaaacact cgaacacaag gagtgtcac 120  
 cttgtatgag gcacactcag tatcccttat aaaagcgaga gcagaaatga ctagctgcaa 180  
 ttctgtgatg cgggaggctc cccatggcgc aagatattac ctagcatatg cgatagcttg 240  
 taaatcgtgc gcagctgtta ctaactctat gaactctt 278

<210> 24195  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24195

ctgaccatag aacttagacc tcgggaacng agaaactcag ctgcgaggag tgtagcgagg 60  
 acatgcgttt aggctgttca tatcttgaa cgagacgacg catagtccac cgtcttaatg 120  
 taccatgtta tcgaaagagc gaacgtaaca tgctgttcac tatcgcatte tgtccatgcc 180  
 tacactctta gcgctggatc acctttgcta cccttaactt ccaagccatc aatgcaattg 240  
 ttgaactgac agactcctgt gataattgag gctctggcgc aagaagggtt aaatgtgagc 300  
 tgtggcctaa ctgaaccca aggtctctct tgtgccatga aggatgtcct gacttatcta 360  
 ctgcataatg gacatgccc tagcttatga tagacttgcg tgtagacgac tcggccgctg 420  
 atcccatga agtttgacct tggcgctgg acatatgggc tgg 463

<210> 24196  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24196

ttcttangga ttctatcagc ttataaacgc ttatttcagg ttaactagta cacaagtcta 60  
 aggacaaat atttggcact tttttgtctg acattatgaa attagtgtg tctaagctta 120  
 aaactttggc ttgtaactaa gatagtatta tggactacta gttggattaa gcttacaatg 180  
 tataaggata taacagaaga gttattgtgt aacataaatt ttttaaaaaa ggaaattaaa 240  
 atatagctct gcgaaatgca aatataccac ctatgtgtct gttcaagaag ctccctcgtc 300  
 tttttta 307

<210> 24197  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 24197



taaacacttt aaaatcgaga taaagtgggtg ccatctaata ctctccatt tggaccatga 360  
 tacaactgac aaccttggac ttttctcctt gaaacttggtg cttgtactca aatagtatgg 420  
 a 421

<210> 24200  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24200

agtcttttggg gaaagcttct taatgaagct tctagagaaa gctacatgaa gctgccttgg 60  
 taaaaaccct gtcaggcctt tgtagccgt tggatcttct cgacatttgg tttgcaactt 120  
 tacaagacac ttgtccatga tctgaccgtt gggatctttg agaagatgtt tggagtgtgc 180  
 tagaagcatc cgttcccgag agcatctctt atttaagcat ttcacccctt gcttttgtgt 240  
 agctgaggaa aaacatcatt tcttcttctt tctttcttcc aaagccatnt ctaaagttcc 300  
 aagaactttc tccatcacac ac 322

<210> 24201  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24201

tgcctatccg atgcagcagt aatgatggcc cgagttatgt tgtgggaacg gttacgaacc 60  
 cggaatgggt ttaggcaaag acaacggcgg cataactagc ctgataaatg ccaaaggaaa 120  
 tcgtgggaag tgtggttttag gctataaacc cactcaggca gatataaaga gaagcatcgc 180  
 gggaaggaag aacggtgggtc aaagctcgcg attgagacaa gaaagtgaag gaagcccgcc 240  
 ctgccacata agtagaagct ttataaacgc gggctctggga gacgaatgtc aagtggtcgc 300  
 gatatacaaa gatgatgttc cgagtacatt ggatttggtg cgaccatgcc ctntgattt 360  
 ccagctggga aattggcgag tggaggaacg ccccggcatt tacgcaacga gca 413

<210> 24202  
 <211> 526  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24202

tgcncgttga aaccttgaga actcanggtt gatccctttg agngccctcg actatctata 60  
ggagcgaatt acagcgtcgg taccgcgag atctctatca agtncgatcc tgcagtgtat 120  
gcagagcata tcatacaggtg actaacatcg tgccactcat tatacctata gatgtcctgc 180  
tcgacgaagg agtgagcgtt gtgacatgt atctcatcaa tgtgcaagaa actataatgt 240  
ctcataaatc agaacatgct tcaagactca gcgatgattc aaagattcac cgatagacag 300  
aatgcacatg atatcaccgg tctatggaat gctcagaatg atcaaaaggt ataaaacgat 360  
gcctaactat atctatgaaa tgtcctatct atctcatgat ccacggagtg tcagccagat 420  
ggatcgcttc tagtcataca ctacatgtct catgcacaca actaagtgac ttgtcatggt 480  
aataaatgtg gatgattgaa ctaccactac cctcaagggt atcccn 526

<210> 24203

<211> 412

<212> DNA

<213> Glycine max

<400> 24203

tcacaacctc tgacattggt ctaggcaacc agattttcca aacttttagga ggaaaagtgc 60  
agcgacttct gccgtttgtt tcgcgataag ccgccctccc cctccgtctt agcatcgtct 120  
tatgtccttc cctccactca gagcgcttca tcacctttgc tacctttccc tcccaagcca 180  
ccattgatcc ctttcaaagt actgtctccc gagaagttag cgactcacag tgagaagggt 240  
atctatttca actgtgacga gaagttccgt caaggtcaca aatgtgcctc caaggtcttc 300  
ttgttgatcg tcgaggaaga tgatgatgcg taggagtatc acaacctttc gggcaagagg 360  
actcgccacc cgaccacag gaggttttca cctcaacccc agcccaaatac ag 412

<210> 24204

<211> 319

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24204

agtttacatc tgaaatgtaa aaaatcactt ttgaaatgtg aaatcaaacg tattaagtac 60  
 taatttgcta ccttcgtaca taagttttat ctaaattcca acctcttttt ctgcattat 120  
 ttggattgca tgtgatattt ctagcattca tgcagtcaac taatcagaat tgttggatga 180  
 taattagatg gctcatttta tcttgatgaa ttaatccaac ataaaacatg catctgagat 240  
 gtgaataact agatgtacga aggtagcana ttagatgata attagatgcc tcattatata 300  
 gtcccgattt catccaatg 319

<210> 24205  
 <211> 415  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24205

tgtagagat tgctgaaaat tgtgggagat tntggtttgg attacaagcc tacaagtga 60  
 gataaaaaga ggattacttt ggaaaggaaa gagaaatgct tagctcgttt acaagggcga 120  
 gaactgcggg tagagagggt ccttatctac cacatcaatg agagctttgt gagtgcaggg 180  
 tggatgtacg aagattaggt tgctatgctg gatgaagata ccgacagga tcagccgaat 240  
 tgggtgcagc catgtcccc agactttgaa ttgaaaaatt ggcagatcat agagcaaccg 300  
 gagatttatg tttttaattt gatgtaatta aacaatttag gatcctatta ctatgcgtaa 360  
 ggcttgagga ttcacatatt gtcaagcgta ctttcctttt caattccaat gatcg 415

<210> 24206  
 <211> 337  
 <212> DNA  
 <213> Glycine max  
 <400> 24206

agcttcaaca ttcaatttcg agcgtctcga tatattacga gactcaatca gacatcagag 60  
 aaaaacgtta ttgtcgtttg aatttgctca gagcttcaac attcaatttc gagcatctcg 120  
 atatgttacg ggactcaatc agacatccga gaaaaaagtt attgtcgttt gaattagctc 180  
 agaagttcaa cattcaattt cgagcgtctc gatatgttac gggactcaat catacattcg 240  
 agaaaaaagt tattgtcggt tgaatttgct cagaggttca acattcaatt tcgagcgtct 300  
 cgatatgtta ccgggcttaa tcagacatcc gagtaaa 337

<210> 24207  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 24207

tggatgcact aaattatcat aataaaagac tgacccttat atacatagag cattccgcat 60  
 gtctccagaa gttgcagcta ctttctgcaa agtgcagttc taattacgct ttacatggta 120  
 tatatattca agatgaatta caatagcact ttcttaagct cctcttttca ttaatttatt 180  
 taaaacataa taaaatggga cttgatgcac cttacatgag aataaaaatg attgcaaagc 240  
 attatTTTTT caaatatata aatggactca ccctagcaca tagttccagg gctagctggt 300  
 ggaaaacact gtaaggaaat tcctggtgat gaaacacaag gatattaaca ataatcatca 360  
 acaagaagaa atgcaacatt tggctcacat tctttatgcc acgaagtcag taaactatTT 420  
 aacaaagcat c 431

<210> 24208  
 <211> 483  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24208

tgccccgtgc agtgatgcct tgaaanncn nttgatgcct tgacgctcta cggcgaattc 60  
 aactcgctac ctgggatccc tcatattgtc ctgcaaacat gcaattgttt cgtatgagaa 120  
 gcctcgact ccaccacca ggcctaatat tggtagctat accaaaccgc gcattttagg 180  
 cctaccata ctctcttagt gcctcatatc cctcatccat gacgaaagat caagaagcag 240  
 atacctcact aatgttagaa atagttcttc ataaggcaaa aatctatggt gtaatggacc 300  
 acctgctcat cgtactcgat tacacaattt gaccgacgct agcaaagtta tgtctgcct 360  
 tgcgttaatc aaatacaacc ttatcataac tgagtaagac gaacctaccc cccaacggca 420  
 ttgtcaagcc ccattcacng gtatncttcc ttataacaaa tgcccaacat cccccctcc 480  
 ccg 483

<210> 24209

<211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24209

acacgtagct ccgattactc cattgaaatc tttgacactc tacnaaactc aatgctagca 60  
 taatacatgt taatgatgta catctacaaa atttttagcgt gtattttatc acccgacgcg 120  
 atatgcaaca gtattgatat ccggatctca tcttcatgac actcggtact gatgcaacaa 180  
 ataccttact ctattttggc taaaaataat agggcggtact acgtgacctc ggctcgtaga 240  
 ctgcggtctga tatctaaata gcattatatt ctaccgctgt catgctaccc ttagaattcg 300  
 aggagaaacc tttacctaga tagatacttg gctcggaaaa ttagaggctt acacgtattc 360  
 actgcaaaat cgcattcact gtccgacatg aaatccagac attgctaaga agaattattct 420  
 ttttacaaga ctcataactca tgctctcctt ctgttcaaaa tctgtaatat t 471

<210> 24210  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24210

ggagcgtaan ctgatgcatg aacactctgg gtagtncagt gagacctcga gaacctctag 60  
 agncgacctg ctggcacgcg ggcttctatg agttctacct cgtgcagcta ttttctgccc 120  
 aacggaagaa ccttcttgta ctgtgaaaga tgacgatata agcactgact tgccccatcc 180  
 tcaataagaa tatgcacaga tccactcgt tctctagcag tattggattg aatggatgat 240  
 cagtgcaga gatgccttct cccatcatga gggtagcga gacgagcaaa ggtatactta 300  
 gttggatgaa gacagccaat cgtacataat gcgataggca tgtgaataac ctgatgtacg 360  
 attgtcgctc acgatgttga aagcgacagg cctggctaatt gacacgcatt cactccaatg 420  
 gcctcgcgat ctgacagggc ccatgcctcg agattatgcc gtacaan 467

<210> 24211  
 <211> 355  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 24211

tctgaattct gtgggtcaaga gatngaagtg tgtggctcat tccaattata ttctgaccat 60  
tgactttgct gactttaatt aatcggtctt ttatcatatt ttgggcaatt gttaattata 120  
tattgttgcg atactaaggg tacctcgttc agcaattctt tctccctaaa agtatccctt 180  
gtatgaaaac gaaattttgg aatacatttt gattttcgct acaaaacaaa ggacgaccga 240  
caccaacaaa gggtgaaata atgaaaccac agttgcttgc tgaagaagat aagcttcaaa 300  
tctttgaagc ctgttctgta ttattttatt acattttcag acaactaggt catct 355

<210> 24212  
<211> 332  
<212> DNA  
<213> Glycine max

<400> 24212  
atctttgata taaagcattc tatttgttat gatcctactt caaacaatgg aattactgat 60  
gtttttgtca caatcaagtt attgtcaaca tctccatatt gttgtacatt gcgatcatgt 120  
tttcgtttct agaattcatt tgaaatgcat gttgctaatt ctaaataagt gatccttctt 180  
gatttaaaac ttaccgtctc ctaatcattt aagtgtacat tttgttatgg gctgctcatc 240  
ttccaatcat gtctagttaa actgcttgat aatctatctc gttgttactt ctactacaa 300  
tagagagaga cttcattctt gtctatcacg tt 332

<210> 24213  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24213

gaaactcaag canggagagg atgcttcaat ggatgaaaag aaagaggttt gatactgtgt 60  
gaggggggag cagcacatcg aacgaagaga ttagggagag aacttgaact ttgagttgtg 120  
tctcacaaga ctctcattca tcaaagtgac aactagtgtt acacatgctt ctattcatag 180  
actaagtagc ttcttgaca agctttcttg agacaacttc cttgagaagc tactttgaca 240  
aaacttcctt gagaagctag agcttagcta cacacacccc tctcataact aagctcacct 300

ccttgagaag ttttcttatg aagattccta tagaatctat agcttagctt cactaaatga 360  
 acgcactata aaattatgta taattgtcga tatacaaaac aagttatact tattatatgt 420  
 gaaacacaaa ctactattaa t 441

<210> 24214  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<400> 24214

agtttatcct tatggctagc ctatgcactt cacacctcca tgccatcctg gaagatgtat 60  
 gccaaagcccc tactatcgag gggcaactcc caccttacga caactatccc gggcaagact 120  
 atgaggaaag agatacccat cttggccccc tgttccacct caaagatcca tccccacatg 180  
 aactacccca actgaacata gttcggcata tccaggcctc acccacaccc gtaaaagaat 240  
 ctgttcccta cgctgaagat aacggaaaga ttgaggcgct tgaagagatg gtaacagcat 300  
 gccagggcct tggc 314

<210> 24215  
 <211> 228  
 <212> DNA  
 <213> Glycine max

<400> 24215

agctcggaga aaaacttgaa gtttttttgt attttacatg ctggaatccc ttgaagagca 60  
 ttattattgg atgctatatt aaatgtagca tcttagtcca tatcatatct ttagtgcac 120  
 atgcattact atgagtaaga catagcagaa gtttctatgt tagaaatgat tcttcagaac 180  
 gcacaaatct atgttttaaat ggatcacaag cttatcgtaa tcgattac 228

<210> 24216  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24216

tgaacaacta tcttgatga gtcctcatgg ctcgtttatn ttactnggcg nngcagngca 60  
 acgatgctgg ccgtagaggt ggtgaacgac ctgtacttca gaacatcgtc ccttacctat 120

tcaaagccaa caatgacagg ggggacgatg gcgaccaac actatggcta cgacgcacgt 180  
 gtagggacgc cataacatcc ctaccacttc tccttgctcc cccagaaata caaggagggt 240  
 gaatcacagt gaccgagata ggttcctcgg ctatggaagc agtatgaggc tgcgctcttt 300  
 tgcgaatgcg agaaatgcag tcaccattac cacatgaaat cctcaacctc tcataggaag 360  
 aag 363

<210> 24217  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24217

atcttattat gtttactatn caaaaatcaa tgccccaac ctatcataaa taattgactc 60  
 aactattatt ggattgcgaa aaagctcgga taaacatcaa actaaaacat tttttaatga 120  
 attgaatttt aaaattatta tatataatct taacaagtcc ttgtttcaat taactctaaa 180  
 ttttgataca ccatatgaat aacgattatg tgtcccaact gaaacatttt ttttatagtt 240  
 tcctcctcat gttaaaaagt attatcctaa atttacttat atctaactaa aacaaatact 300  
 catcatt 307

<210> 24218  
 <211> 193  
 <212> DNA  
 <213> Glycine max

<400> 24218

aactcagctt gagtagaggg cctaaagatt ttgaattttg aattggcctg aaggaatgag 60  
 atggactgcg ggatcagtct atgaacagat tcctattcga gtattctctt tgccaagaca 120  
 ccagctggaa tccgctgtcc atcaaacatg tagcaaatec tcaccctctc ttgttcttcc 180  
 aggaaaaaaa tga 193

<210> 24219  
 <211> 168  
 <212> DNA  
 <213> Glycine max

<400> 24219  
 agtctctcat gtctggctca tcgagcgga gaagctactt attccatggg acacccctta 60  
 gaggaaggca cctcctcata cctgtacaac tttgtcttgc actggatgtc catggtggaa 120  
 ctgcaccatt aaaggagctc acggcagctc aaagagccat cctacata 168

<210> 24220  
 <211> 153  
 <212> DNA  
 <213> Glycine max

<400> 24220  
 ccggcagtta tgccattttg aaaacactac agcctatgac ctactacaga tagtatattt 60  
 gcggaaggac actatgttat gcttgctgcg taaatgccgg ggcgttcctc cactcaccaa 120  
 tttcccatct ggaaggtgat gagagcacgg tcg 153

<210> 24221  
 <211> 149  
 <212> DNA  
 <213> Glycine max

<400> 24221  
 gtgcagaaga aaatgagaaa tgccacatta caccgttttt ttttttcaca catctcgaaa 60  
 agagatgaga gctctagggg gaatgtactt catgtaaaat gtgtcatatc agctattgat 120  
 attgtaatca tcgccttgct gaagaattt 149

<210> 24222  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24222

tgaagaaagt ttgtctttca tatgaccatt tctnttagtg acattngtat tgattgctgt 60  
 attgatagtt gaatcttact ctctatattt tcatatgtac accatgcac attatgtaga 120  
 agaaataaga tgtgttctaa agttagaaac ttctttacca cattaaactc tatgttttaa 180  
 ttgattacca agcttatcgt aatcaattac acaagtgttt atagccggca gagagattct 240  
 agttgaggtt taatcgatta catagtttag ttgagacaac gactggattt tcatgagtct 300

atgctttaat cgattatcat ataatcgga gcgattactt ctttggtaaa agtgtctcta 360  
gaagtga 367

<210> 24223  
<211> 317  
<212> DNA  
<213> Glycine max  
<400> 24223

ttatgcaatc tagtattttt gagctcgatc ggatcatctat cctggccgac gccgactgtc 60  
atttatttcg atcaatatcg gtgaataata tttttttgcc gaggtgggct aatgttttcc 120  
tgccgaata aatgggaaca cgccagtttc ggccgaaaca aaacatcggt tgagctcgca 180  
cgaaaaaacc tagccgacct acattgtaag ttttttatgc aacaccgaca aaaacaaaac 240  
tttccctgtc ataagaaaaa acattatcgg ccagcgagcg tttttttaa aaaaaaatgg 300  
gcaatgtcgg ctgaaaa 317

<210> 24224  
<211> 398  
<212> DNA  
<213> Glycine max  
<400> 24224

aagcttgagc cactaaacga cattaacggt ttctcttatg tctgatcgag tcccgtaaca 60  
tatcgagacg ctcgacattg aacgttgaag ctctgagcca atacaaacga ccataacttt 120  
tttctcagat gtctgattga gtcccgtaac atatcgagac gctcgaaatt gaatgttgaa 180  
tctctgagca aattcaaacg acattaactt ttactcgga tgtctgattg agccccgtaa 240  
catatcgaga ctctcgaaat tgaatgttga acctctgtgc aaattcaaac gacaataact 300  
tttccctcgg atgtctgatt gagtcccgta acttatcgag acgctcgaaa ttgaacgttg 360  
aagctctgag ccaatacaaa cgaccattac tttttact 398

<210> 24225  
<211> 386  
<212> DNA  
<213> Glycine max  
<400> 24225

agtttatgag gatgaaactg agttgaatgt tatcttggtg aaattgtgaa aaaattggaa 60  
gtcatgaagc tgttaaaact tataatgtac ttaataactc tgtagttaac tacagatttt 120  
gtagtacttc cttgaaaacc acattgggtg ttgtatttag tggttttcct tctttatcat 180  
gaataagaat tttcaatcta gtttttctct gaactcttga cacaacgaca ccagaaactt 240  
gttagacttt tgacaagcat accaattgtc agtgcattgt acacatttat aaaaagagtt 300  
tgtctccaca aggacttgag ttacttgact catttggtgata aagggtatca gttcaatagt 360  
tatgtacaaa tttaatcaaa tgcat 386

<210> 24226  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 24226  
atctgctagt gtgtgtgcat gggcaatcaa ttgtctgtac tttagaatat gcttcatcgg 60  
aggctgcccc acaatgcttc aagttctgtg taacaagcaa ttcaaagttt caaattgcgg 120  
ttegctttta actgctacca atgcaatatg taatcacctg caaatacagt tgctgctgca 180  
tctactgcaa taagaatgtt gtggccatag cagattaaat gtcaggcaac attagtgtgt 240  
tttaaatcaat gaaaatgatt atttactaac gacagaacct tttttttagg aatcaaacca 300  
atgaacctaa tgcatagaaa aacagatttt gtcattgtgat atgcctgtta acttgcttat 360  
atagacgcac catgaacact tt 382

<210> 24227  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24227

agtttatgag tcaactgggt attatgtttg agcatctgaa ctcatggaat actgatgaag 60  
agttccaaaa caagaagaga accaggtgtc aaccatgtcc agcttatctc ttgaatttga 120  
gttgcccccg atctttgtat gatttggcct ttgagccatc aaaaactgtt aaatttaagg 180  
tatagctttt cttggcttcc cttttcatga cttattttat cttttcagta catcaatgag 240

gcgagactgc attcttgttt ccataaatga tttttgtagg gttttggtct agattcangc 300  
 ttttatgtta tacatcacgt actctgggtg gtgtaaattt atattaactc caagaagcaa 360  
 taatgatcag agattttgtt tcccatatt 389

<210> 24228  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24228

acacctgaaa ctaagcatgt aactaagttg agttgtaaat taatgctttt ggatttttcg 60  
 catgataaag ngaaaccaa ttttgaagta atatttacgg cttacattca agtggcttat 120  
 caaaagaata gtgattattt agacaatttc gaataaaaga ttaatgtttt gcaaaaatat 180  
 attttaatgg tttcggctctg gatcatcaaa gaacaatggt aaaactaaaa cttgtaatca 240  
 aatacaatct atgaacacaa aatcagagtt cttgtgagaa tgagtgatat gactagtcac 300  
 ggggtgaactt aatgttcctc ttttaatgcg ataaccttaa ttaaactaga tatttatgta 360  
 atttttataa atgtctaatt ata 383

<210> 24229  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 24229

agttttgtcc tcagatccct cttgttggac tttacttaga ccaaacaaca ttattgtaac 60  
 atcatactta acaccatgac ttaatccgca gatccctctt gtaagactaa gtttcaattc 120  
 tgcttcattc aagttctaata gcaacaatac acttgccaat gttaaaatca cctaactagg 180  
 cacacagatg gttgattaga ccaagagcat acaaaattta agcactgaaa gaagcattga 240  
 acacaagaaa cacaatcaat tagatatgaa aataattaca ttagttgttc attagaaatg 300  
 cccaacaagg gtgttttagcc agccattaca gaagataccc taacaatgat gagcttac 358

<210> 24230  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 24230

tctcatgtaa gatcctgagt accttctgga gtaggttatc cttactgctg attcgagctt 60  
tctgttatga actaagacta agctactcta ctaaactaca ctaatgggta tcttcataat 120  
tcttctatgt gccttttcat tcattgcttc atatttatag gcttacattg ctattgatac 180  
ttaacaaact aacaattctg ttgtaacaga attgaaggag cactatggct atcccctaac 240  
aaaatagtgg gcttagtgca attccttatt ggtctggtag ttgctaggct gctattgcta 300  
tcaataccca ccactagaaa accaaccttg tccttaaggt tgagcaataa aaacaagctg 360  
aaacaggtgg tgggtttaga aaaataagag aggtacatga gtcaagttgc ttttgtttgc 420  
gggctt 426

<210> 24231

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24231

tgtctgacct gtgtgcttag cgtgttcata attntttggg gtttatgggt ttttgatgaa 60  
ctctctaagc ctgacctatg tgcttagcga gttcatgcct ttcttagaat atttgctggg 120  
ttttgatgaa ctgctaagc ctgacctttg cgctttgcaa gtttctgaat tttcttcgta 180  
atTTTTTgggt gttctagatg aacttgctaa gcctaaccg tgtgcatagt gagttcatga 240  
ttttttcttca tattttctag gttttttata aactcactaa gcccgcacctt gcgcttagcg 300  
agttcttttca tgtgttcata gtctctaggt tntttgtgtt ttagtgacctg agttaagcgt 360  
gtcaagtcgt gctaagcccc aatgcctttt tg 392

<210> 24232

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24232

ttgaccaaac ccncagcagc agttgggtcc ttagatTTTt cctttaccct tgnCnctgag 60  
actgaggata attgcattgc gtgccttctg cagtaatgtt ttcttatccc catcagccat 120



catcttttca agtttggctt ctccatctag tgcttccacc aagccctggt ggacaagaag 180  
 agctctcadc ttcaattgcc atagcccgaa atcattttgc cctgtgaatt cttcaacctc 240  
 gtacttgggc gagcccatth ctagaatcga actcaaaaaa tcgctccacg ctcaccacac 300  
 caatttgttg taccaagatc aaatcgact tcacaaaaga atgagtttct tgtatgaaca 360  
 agaataagca caatgcagaa aagaaaaaaa aatgaacgaa cactgcactg tg 412

<210> 24233  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 24233

agtctttatc tagccaagat tattcttagg tgttacaaga gaacctaacg gtttctaatt 60  
 atatgggcca tcaaacttat catgtgttga cagtaattga ttagcccatg aatctcctcg 120  
 gggggcgtac acacttcggc catggctttt gctttggcta atagacgagg gaggtcttga 180  
 cttccattca aggtcaaggc gaacctatcc atccacatag tcacttcttg atgcaatgca 240  
 tcaatcacc cccctcttgc ttcttttttg gcatacactt gtgcaaaatc ctccgctagc 300  
 ttttgttcat gggtcacaga ctgggttcaac tcttccttgt atttccttat gatagctagc 360  
 atgctttgct ccatggcttc caagtg 386

<210> 24234  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 24234

aactcaagct tctctcaaat gagatgacaa tcaatctcta tatgctttgt cctcttatgg 60  
 aagactgggt ttgaggcaat ataaagagca acctgattat cacaatacaa cttcatttgc 120  
 aactcttcac aaaaccttaa ttcttgaaga aattgtttga tccacatgag ctcacatgta 180  
 accatagcca tagatcgata ctgagcttct gcaactggacc gagcgacaac agtttgtttc 240  
 ttgcttttcc aagagattag atttcctcca atgaagacac aataacctga tgtaaacttc 300  
 ctatccatgg gacatccaac ccaatcaaca tcacaatadc ctgatagttg cgtactaccc 360  
 ttggcttcat acaacaaccc ttgtccacga gctttcttaa catacctcag aatagcatg 420

acaacat

427

<210> 24235  
<211> 370  
<212> DNA  
<213> Glycine max  
  
<400> 24235

tgtttgtgca cactatcatc tctaataat ttagcgaatat tattagagaa caaaattatg 60  
actttgtcaa cattcacttt ttggtctgaa ctggtacaga aaatgtctag ttttttcttt 120  
atggcattag tttgctccaa gtttattttt gcaaaaagta aaagatcatc tacaaaggca 180  
aggtaagaaa ttaatatcaa gggatataat aaaaaaatat caagggatgc aaagaaatta 240  
atttgaataa aacctaattc aagggtattg ttgagtgaag taaaacaaca tcttggtatg 300  
gacaaattgt aagtttgaat tttcgtacat ctcttttttt ctttttttgc ttctttcggt 360  
catctctttg 370

<210> 24236  
<211> 518  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24236

ccgcccgcac ccncacacca agactcgaaa taggaaaata ctcacctcc ccnccccccc 60  
acagagggggg ataacctgag acctagaanc aggacacaag aaacncaacg nncaaagnnc 120  
cacaacacac acaaatatgg cagatgtgga cgacaacaag ggcaacggaa aggcccaaca 180  
gcatacatga acaacgcaca cgaaggggcg ccaaggggtga ggacacacaa ccgcactcca 240  
aaccctggc acagacacaa gcaaccacga cagccccagc cgcaacgcaa acacggaggc 300  
ccaagcgcca aagacaccac acagacgagt gacgatacat cccccacaa caggaagaac 360  
gcgaaaggac aacacggcga cacacaacaa gagcgaaagg gcgcaacaa gaggccacac 420  
acacgcaagc ccgatcgaga agacacgcaa aaacgacaca aaaagaccac acgacaagca 480  
ggagaagaac aacacaacga ccagacaggc gaagagcg 518

<210> 24237

<211> 375  
 <212> DNA  
 <213> Glycine max

<400> 24237

agtttatccc tcaatcttct ataaataggg ggagaagtga agtagaaaag ggttcagccc 60  
 cttacgcact tctatctctt tcgaatttgc ttatgaaaat tgtttctgtg aagaaaatcc 120  
 aagccgaggg gcttccgtaa cgtttccgcg agtgatttcg cgaaggtttt cgaccgttct 180  
 tcgacgttct tcattcgttc ttcacgttcc ttcagttctc aacgggtaag tacctcaaac 240  
 caagcctttc aattcattct atgtaccggt ggtggaccac atttggtatc atgtattttt 300  
 attctcgttt tcattgactt tttctaccca cttttgacgc gcttaagcca tttatataag 360  
 gcattcctcg cttaa 375

<210> 24238  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 24238

gacctataaa actcagctta acccctttta aagaaggctt taatgcttat gaagatttaa 60  
 caatcaattt aataattttc tttaaacgtg caagataaaa ttgattgcaa taaaataaat 120  
 aagataaggg aagaaagaat tgcaaaactg atttatactg gttcggccac ttcattgtgc 180  
 tacgttcagt ccttaagcaa cccacttaag attttccact atctctgtaa atcatttaca 240  
 gactttgaac acaccttggg attccttacc cttgtgttca agattttcac actccaagag 300  
 acaccccgtc tcttgattac aactgagttt ctgagatgaa cagaaagatc tctctccttt 360  
 agagtggatg atacaaattg aagatcctag aggaaatttc ctctttttaga gatgataata 420  
 cagattgaag 430

<210> 24239  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 24239

tgtttgggag gattgatggg gaccgggggt tgagagaaac gaggatatgg gctacgtggg 60

agtacgtgag ctcagttgga ggtgggcaac aggggatggt gggtttatgc gcgcattgtg 120  
 gatgtggaaa acttgttgtg caccatcgcc cgaccgccac ctagtaccac atgtgatggg 180  
 taccataa tctacaagc ttgagatgag gaagtgttga agggtgaaac ttcctgcttt 240  
 tattgttgac cacagagtgg tacctggaga tatgtcgcg gggtcaggag accttgggga 300  
 cgtcagggtg ggtgctattg cccaaaacca agcttgacca atcccgacc aaccgggca 360  
 tagtcggtca g 371

<210> 24240  
 <211> 499  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24240

agtggtagat gaactttgag acgtagaagn cagagacaca tagaatctca agcttagatc 60  
 aattcaaagt gccataacgt tacactcttt tgtancgacc acgcgcatga tatatcggag 120  
 gctcttcgat atttatcaac aagcagcgct ctcagaatat cataatgggtg cataactttc 180  
 tacttcagag gtgccgatct catgcggcat tatatatcag acgcttctcg aaataagagt 240  
 caccgaatg ctctcgataa gatctaatac gggacataac tgtttacctc gnaggttctg 300  
 attcaccgtg tataatagat tcgacacct cgcgacttga acctccggaa gctccttgag 360  
 aaatttcaca tgacatacac gtctaactca gaggcaccac tcaggcgcat actatttga 420  
 cagcctgga actgaaccgg cgattcgctg cgagaatccc aatggtctaa cctctcactc 480  
 gagattcctt cccgcgcac 499

<210> 24241  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24241

cgtcattgag ctttgaacac tnnttgatcc ctgagaccct ggacnccaag agnncacgag 60  
 cagcacgca ggttgctccg agcgacagc ttttgcattg ctgagacctt aaacgacacc 120  
 agaggcgggg taccgacaca gccctgagag ctggagccca aacaagcagg cgatgaagaa 180

cgacatgaat caaagacaac tacatacttc tatcacctgc gctcaagaac agagcagaag 240  
 cctggtcagt gaatccaagc gcaatatatg ccactaaaat aggaaaccag cgtgaacaag 300  
 gaaaggagga cctctatcac catgtggcat cctgggtagc acgggaaaca acaacaccga 360  
 ctggaggact aggtccgtaa aaggtccacc agaaggaccg tgaaaacacg agataaaaacc 420  
 agaaagaaac gacacctcag catgacn 447

<210> 24242  
 <211> 190  
 <212> DNA  
 <213> Glycine max

<400> 24242

ggcggcgata tgcgtgcgga aatcatgata atcgtatata cactggttta atagtgtcct 60  
 gaacccatt ctgaagatcc tttaatggcc gcaatgcgga ctgtgatata atctagcaat 120  
 ccctgcaaaa ccacaatcta atggcagtag ggatacaaga cgctaagggtg ttataatctc 180  
 accggccttg 190

<210> 24243  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<400> 24243

agttttccga tcaaatacag tagcatgcat tttttttttt aattttttta accagcaaatt 60  
 attttgttgt taattagtta attttttttag tcagaggact agaattcata ttctctctta 120  
 tagcatgcat ttttttattt ttttaaccgc aaatatattag atgctaata ggaatgttct 180  
 tttttttctg tgagatgatt gaaatgtata ttactccttt acttcgtctt ttagcatata 240  
 tgcattgaat gtaagtggga gctggattcc acgaatgaat ggctatgatt ctgatggatg 300  
 tgg 303

<210> 24244  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 24244

tgtgcctcgt tacgtttgga atatgaatgt tgcatttata tttaaagacc cttaggtgct 60  
 ttgttgatgg cttcttcctg tttcaagctt caattggagt cttgtctttt acagacttag 120  
 ttggacatct attgagtatg taaacagcag tgtagactgc ttcagcccag aatgtattaa 180  
 gtagtccctt ctccttgagc atcaatctag ccatttccat aactttgcca ttctatctct 240  
 cggacactcc attttgttga ggagaatatg ctactataag ttgtcgctca atgccttcat 300  
 cctcacaaaa tctttcagac tcgcgagagg tgtactcttc gtcgcgatca cttcttagct 360  
 ctttgatcca tttccacttt gatttttagca aggccctgaa cttttga 407

<210> 24245  
 <211> 362  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24245

tgtttgccac tgcagcagtt aagtgaacaa atgaagtgtc cacagtcatt ggatggatgc 60  
 ttggtagagg tacatgctaa taactaataa gatttctctg gcagggtatc attgtttttg 120  
 catgactgat ggctaccttg gggctggaga ttttggttga atctgcctca agtgttattt 180  
 tgaaggtaat tgagataatc ttttgatgct gtttgcttat tatataccta aatttggggt 240  
 gaagactagt tattcaacat gtggattatc taccataata agtgattcta tcatttgagc 300  
 agatgatatt atcatttgac cttgctnttg ctttgattcc gtccttatag ttcagtagca 360  
 gc 362

<210> 24246  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24246

ttcctctatc aacctccatt cttcatcaat tgcaattatg acgacncaa ttatacaacc 60  
 ttcgaaaata tcttcgaaca caatgacatg atcaaacggc attttgtcta tcaagagtat 120  
 cattgtgcca taagagagcg ccatataatc taagcatgtg ttaattttta aaaaaaatt 180  
 actcttagct atagcacgta aattcataca taaatttgct catacaatta tgcgattcta 240

aaggttgtaa atccttgagt attataaatg aacttgtaag cataatccca cttttatatt 300  
 acagacgaga aaatatcatg actctagtga tctttttgca ttcattggga aaagagttag 360  
 ctaataga 368

<210> 24247  
 <211> 278  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24247

tgtttgtaga ctctagaact acaccaatat cnggttactt atagattcat gaaatttgga 60  
 tcttaaaaaa ccaggcgatg atgaacgaca tgaatcaaaa acatcatata tacttctatc 120  
 .accttctttc attntctgag cataagcttg gtaattgaat ccaatcgtat tttttccac 180  
 taaaatagga ttccagcttg gccatgtaaa ggtgttcttc taccaccatg tggctccttg 240  
 ggttgtcacg gtaaacaat atcacctttt tggaagtc 278

<210> 24248  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24248

ntntcagttt gactgtaaca attttcatat ctctattaga gctaaatttt gaatatcttc 60  
 attgttttagc tgcaaatcta gggaaaagat agattatttt gaaatcagag ttgtaattta 120  
 aaatagttaa ttaaattata acataccatg tatgttgac aactaacttt ttagtagaga 180  
 attccgtcta aaagtcaccc ccatgtttta ttccatacat ttatgggtcta ttaatgttgt 240  
 tggataagag catcatttca aaaaacttcc tcgaatagtg tctgaaccc caatccttg 300  
 cttctttaat ggccttaatg tatttcttat cattagtcaa gaatccana gcaaacatt 360  
 cttcttgga agtgggataa catgttgcta acagttctaa taccctcaca cgacaatgg 419

<210> 24249  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 24249

agtttggccc cataatcaaa gatgacccat gccaaagttgt gcactatgtg aagattgtgg 60

taaaggccaa aggggtttgag gagttagatg tggaaaccgag aaccaatgat gacaatatga 120

ttaaaccaat tgaagaaaca tatacctttt agtcaacat taaagaggaa tatgttacct 180

aacttggcaa ccaagtctta ggtgaagata agagcaactt acaacaagtt attcggacgc 240

atgctgaccc gttcgcatag tccgcagctg acctgtcaag gatagatcca atcttcatt 300

gttaaagatt atccatatat caagatgcca aaccataac tcagaggaat agaaagatgg 360

ggaaagaaag gtgttaggta gtgc 384

<210> 24250

<211> 352

<212> DNA

<213> Glycine max

<400> 24250

actaagctgc tcgggggatct actacgcttt agaacttggg atgctgccta gcaatttaca 60

ctaccacaga gaatgagcta ttagcgatag cttttgctct tgagaaattt cgatcatatt 120

tgcttggtac tcgagttatt gtttatactg accatgcagc tctgaagtac ctgttgaaga 180

aggctgaatc aaaacctata ttgatcaagt ggatgctatg gatccaaaag tttgatttgg 240

agatccgtga tcagagcggg tcacaaaacc tcatggctga ccacctgagt aggattgagc 300

gtgcgcctga agactcacc attacggatg atttttcaga tgaccatttg ta 352

<210> 24251

<211> 321

<212> DNA

<213> Glycine max

<400> 24251

agcttaagct ccttcaactg cttatggctc ttaatatttg aagaggatac ttgaggaacc 60

ttcaccggac gaagacactg acaaaaactt atcttctcct tcttggacaa agtatggcag 120

gctgggggca agtaaaattt cttacaatca gaccttggat gcagctgaga tcgcataccc 180

atatcagcta gatcttgacg agtattcaag ccacccctca tcttgccctg aatgttaagg 240

agcgtcccaa tcacactgtg acaatacatt ctccacatgc atgacactcg tacgatggct 300



<210> 24252  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24252

catctatcct ncactccatg tagaattatc ctcatcggt cccactgca cttcaccaa 60  
 cgcgatctcc ttctcttca acgacttcat tcttcggtca gagatcttct gaggttgtgc 120  
 tttataggtg aggttatcct tcacctgtac ctggtccact gcaagaatat gtgatggatc 180  
 cgggttgtac cgtctcagtt gagagacatg gaacacaggg tgcaaattcg ataaactcgg 240  
 aggtaaggcg atatgataag ctacaggccc aatcttcttc aaaatctgat atggacctag 300  
 atacttgggt gtcaacttcc tagccttgag agctcttcca cactccgtta tgggagaaac 360  
 cttcaciaaac catgttc 377

<210> 24253  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24253

agtttcattg ttgcgacgat gatcttttct cttatggaac tagcattcaa actcatttta 60  
 gaaaggacat aatccaaatt aaacaggaga tggaatcctt gagggcttgt acaaactcaa 120  
 ctttctgagc tcgtttctta gacttgcata atcaacttag ttctctcctt caccatanaa 180  
 aggtcttttg gagacaacat gaaaagcttc attggctctg tgatggggac tccaattoga 240  
 aatatttcca caattcatct tcagccagaa tagaaatgga tgactagatt ggtatctcgt 300  
 atattgctaa aagatacttt gagaaccttt tttcaagcca tgggtggatat cttgacaccg 360  
 ctatccctca cttatct 377

<210> 24254  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 24254

gctttttaact gaagttgcaa cgttccaaat atctggaata tgatctaate gattacaata 60  
tatnngctat cgattactag tgtatctgaa cgttgaaatg caaattcaat tgtgaaaagt 120  
cgcatatttt cataaaatgc tttgtataat cgattacatg gttatgatta tgcattatca 180  
gtgacaagtt ctgaataaaa agtcaagaga tgtaactctt ccaatgggtc tctcaatatt 240  
ataactctac taatgggtgga cttgaccata catgaagagt ctataatagc aaaaccttga 300  
cttgcatctc actaactttt acaatttgag aacttctttg aacaactttt gagatatcat 360  
gaaaccttcg cttcatatct ttcttctatt tccttagcca gaaagctttc taagtttttt 420  
gtttccaaac 430

<210> 24255  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 24255  
cgctagctta tctgtctcaa tggcgtgttc ctcaacgcct tcttagagac cccggtggtc 60  
ttggagcctg gggaaacta cagcacgtac tttagattca tgtccagacc ctccaggagt 120  
cgctgccaga ttatgtattc taaggcgcgg tttgtactt aatgctgagg gagcaccctg 180  
gaagctcctg aggaaggacc tcaccacct cgcccataca tgaagtgtgt tatcatactc 240  
caacctcgcc cccacctctt atacgttcga tcttaacatg gacaaggcga ggttagtcta 300  
cgggcttggt atgaagatgg atatggactt gggctcgctc atttcaggac aaatatcaca 360  
gacggggacc tgacacttct 380

<210> 24256  
<211> 441  
<212> DNA  
<213> Glycine max

<400> 24256  
aaactctagc ttgtctctc tgtaatttgt aaactgcagg ctcccttgc tctattctta 60  
gtgacatttt atgctacgca gttcctggt ccaaactatc attgccggga ggtatactta 120  
ttttagaatg tgtgcttttt aaacaaacat catttcactt gcagttaaac tgtttctttt 180

ctttctaggt gactgagtag taaactatgc aagttagatt tttttttctc ctttcaaata 240  
atcttttaat ttaactacat ttcattgtatt gtgcaggggt ctaaacttgc tacactgcct 300  
cgtccggata gtgtctttga agtcctcttg attaattggt agtatactat tgtactcgag 360  
ttcttttagct ttgaactcct tttgggtggg ttgggtgctca tttgggtttc atcatgcagt 420  
tccacaagat gcgatatatg g 441

<210> 24257  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 24257

cgcgagcctg cagtgtctag ctgcatgcat gcatgtcttc tattcttgac atggtcgatg 60  
tgagtaaagc taccataact gctttaagga tttatgatga tgcattgtgga cacatgaatg 120  
cttaaagagt atgtgaataa accgattaaa aaaacgtgta ccttatacct cagcatgaat 180  
gaggaatatg ttacgccgct tggcaaccaa gtcttatgtg aagatgatag caacttacia 240  
caagttattc tgacgcattg tgaccgcttc gcatagaccg cagcttgacc tgtcaagata 300  
gattcgatct tccattgggtg cagattatcc atatat 336

<210> 24258  
<211> 260  
<212> DNA  
<213> Glycine max

<400> 24258

tagactcagt tcaacctacc atcctttatc tgattgttta acttaacgga ccataaaatc 60  
gttgaggagc cttttgaggg cgtgtgtctt agagcaaaat ggaagttggg agagttttcc 120  
tgccattgat agagtccact tacaacaata tgtttctctc taccattggc atggctccct 180  
atgaagattt gcatggata aggtgtagga cacctctatg ttggctagat cctgcagtaa 240  
accttacctt atgaccttga 260

<210> 24259  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24259

agtttatttt tccttactaa aaactcattt tttaccaga acaagttgat tgatcaagtg 60  
taagggtacaa ttgttggaac caataagact taaaatcaag aagccggagt ttgaattcaa 120  
tagaatccaa gatgcaccac caaacatgaa aggatttata ttttattttt cagtagtta 180  
taattattta tcataatttt atacctgnga aatccttaaa agttagtata cagcaactta 240  
cttacctgtg aactagacca tataatagca gtaaaacata attatctcat ctatgataaa 300  
ggttgcataa catgctaaat ttaaaattgg caaaagtatc taattaacag gaacttttga 360  
gttttgaaga ctatg 375

<210> 24260  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 24260  
gccacttaat atatacttat ttcgaattct tctattcgct ctatgggatg agcgctttgc 60  
aaagtgtgaa cagtttgcaa tgtctactat aatattatgt acactttctt gaagatacgg 120  
gctaaagata ttcaaaaaga aagttggaat taatagtcatt tctctatatg taactacatt 180  
tccctctttg catctttcat ctgcagcgtc tgattattca acaatcacct tatggtagct 240  
ctaagagatg ggctgagagt ggagtcatat aaaataggat ttcacattcg atacattaaa 300  
tatttcaacc ctagtcatc acattcttga agaggagtca ctagacatgt gatcataaga 360  
tggg 364

<210> 24261  
<211> 352  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24261

agtttgcatt tctcccatcc cccagcaaa gtcattgat agttctgctg gtacgaggtg 60  
aggtttaaac aacaataaac gcttattcca ccaagtggag ctaatatata tgtcaaaatc 120  
actaattggc atacacattt gagaatccaa agagcataaa ttttattgat tactaagtta 180

ctaacttgct ttacttacaa tattggcaat gatcggttcta tttcaatctc gntaacctat 240  
gctctgctca ttcttatttt tccctgcatg atttccttga gactacagat actgatgtta 300  
tttttagctgc ataattgaaa cggtataata atgctgcatg cttttgaagg tt 352

<210> 24262  
<211> 547  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24262

ccaccccgcc caccagcagt ccaactgggac aaaaagttgt tggtagaacg aaaccncnc 60  
ccccccccc cccacccctt tgacccttg agactagann acntcggaan aacnanagca 120  
nacncaagca cngagcccaa aagcgaccg acgcatataa cgatttttcg tgggaagacc 180  
aactccgaca cgcagaagcg aaaatacaaa aagggaaatca cgaacgagaa aacaaaggaa 240  
aaatccaatg acaagcccaa ctatgaggca gacaatatcc gaatcgggga aaggagagaa 300  
gctaaagggt aagaaaggaa aactaaacag caaacaagg gacaaagaaa aaaacggcga 360  
agaagaccga aataaggcac ctgatcaacg aacgacaaaa accacaataa atgtgcacac 420  
agggaaaccg acaaacacac acacgacggc gcaaaagagc gaccagacga acaaatgga 480  
aagcaacgaa tccacgacct gaaaaggaag aaaacgctaa tgaccaacca aaaacgaacg 540  
cacgccc 547

<210> 24263  
<211> 365  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24263

atcttgtaaa tactacaagt atatgaccta tacggctagt agatttgtgt aaggacacta 60  
tgtattaatg tcattttatc gataaatatt aattattaat tattaatttt ttattagtag 120  
gggattgaaa cacaattttt ttctttttgt tcttccttaa ccatacaatt cacctttgga 180  
gggttttcat gacttanata ttacataat tataaccata actaattatt aactagatta 240  
taaagtatgt attataacta taaccataat taattntata taactagcta gttataattt 300

ggcataacat gatataactg gatattatgt tcaaattatg aatatataaa aggttatgaa 360  
 taaac 365

<210> 24264  
 <211> 330  
 <212> DNA  
 <213> Glycine max  
 <400> 24264

acactctaca atactcacgc tcttattgct cgtggaagtg attgaccaca tttatgttgt 60  
 ctccgatcac tcatccgccca aaatgggaaa gtattcatca egggtgattc ttacacttta 120  
 caaattgaaa acctagatgt ttgaatctct ctgttaaagt tttacatctt caagcagctg 180  
 tctccataat tcgttcaaata aatgtacttt ttcttcaaata cagtccaaca tgcactagat 240  
 gtaagctatc cacggccatc aacatattgg catcataaac acctcaaagt gtgctacgta 300  
 tgtgaatgat taactagaca tctttatcaa 330

<210> 24265  
 <211> 296  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24265

atctttatca tcaccccgaa tttcaaatta ttcacaaaaa tatgacctgt aatgttcatt 60  
 gtgggggataa ggacagattc tggcaagatt cttggctgtg acatggaggc agccttcagc 120  
 agaagctcaa tcaattatgt gtgagtagca gatagcagaa cctttccatc tctaanatgg 180  
 gatagtttta tcacaatact cggaattggg attataaatg gagaaggaac ctctntgatc 240  
 acgagaatga gctagcaata gccttcatgg acgatatac tgctatatct attcat 296

<210> 24266  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <400> 24266

cttaagcaac tagttgcatt tgaactatgt tttattgttg gacaaactac gaaaagtaga 60

aatcaat ttt acagagattt at tttttatga ttggggtaat taatattttt ttaatttagt 120  
 taaaaaacta actatgatgc aaagtaaatt taaaatgtga aaaaaataaaa taataaaagt 180  
 taagtaataa atcttaaata gtaatcaagt gtatgttatt ttttttccga agttaactgt 240  
 aatgtgtcaa attattagta tagtccagat acgaaaataa attgatacaa ggggaaccct 300  
 aaaataacac acacaaagct taaaaaaaaat aattgaactc atctaattat aacaactatt 360  
 cacgtgaacg taaaaaaaaa aaaacactat tcacgtgtcg tagaattaag ttcactt 417

<210> 24267  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 24267

agtctttcag caataacatg atcttttcag cttctattca agtgatcaat tcttttcttc 60  
 caggctcatgt acattgcagt ctaaatacag tccatatcag catctttcat atgcaccatc 120  
 aacaatttca gaacttcaca cacctgttca ttggaagaga caaatctgtc tccaacaaca 180  
 aaactgcaaa tctggtcttt caattcaatc cagctcctcc ccgagtcact tttattttta 240  
 atgectctcc tcagcttcgt tgagctggca aaatcatccc agtttctctc agcggcataa 300  
 atatttgata tcaacgcata agttcctgca ctatatggct tcatatccaa agctctcaaa 360  
 gct 363

<210> 24268  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 24268

tgcataaatt agtagcaaca aattcagagt aattagttaa gaggataaac tgaacagaat 60  
 ttaacagtaa taatagaacc tcaaagagaa ttgtgcttga tcctcaagag aaaacaacgc 120  
 tgcggactta gcctttcatt aatcaaatag agaataaatt tttattgata aactaaaagt 180  
 ctaaactgga attgtaaaaa atgaaaaata gaagagagag agagagagag ctaaactaga 240  
 accttggtgc tggtatatag tttttcagcc ccaaagctta caaatctatt ttaaatccaa 300  
 gcccataagt aaagtcaaat caaatctaga taagataaga tctagatgaa ataatatcaa 360

gatgagatca aatctaaata atatctagat aagacaagat aagaaaagat ctaattttgt 420  
agaataaatt ag 432

<210> 24269  
<211> 464  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24269

cgaacttgaa accntngaaa agcctngttt gacgcctcg tancacctag ggagaactca 60  
gcgccgaccg gcagacacgc tagattagac ctgaggcctg aatttttagaa ccagcccagn 120  
agtaacaatg caacgaacga cttggaaata ctcttatect taacagaaag atgagcgcgga 180  
cgggttggtg gatatttggg actttgagga acacatttgg cctataatca cttagagag 240  
gcatctcaag agcgaaccaa taagacatga ctttatgacg ctaacaatgt gacacacact 300  
atgagaaaga tggggctgac ctgagtaaaa gaacgatggc tatatgattc tgtgacaacg 360  
tctgccatag acagcatgaa aacacatggg gaatctgacg gactgacaat cctgggcaga 420  
taaggcgga gctgtgatca gctcccaaac gtgaagtgat acgc 464

<210> 24270  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24270

cagcttgatn ggtaaagnc tcaactttgt caogtgctca tgcaacaatt gtagccatg 60  
gctatacgag acatctttcc aaacaaaggc aagttagcca taactcggtt gtgctttttc 120  
ttccatgcta tatgtagtaa agtcattgat cctgtcaagt ttgatgagtt ggaaaataag 180  
gccgcaatta tactgtgcca gttggagatg tattttcccc tgctctctta gacatcatga 240  
ttcacttgat tgtgcatcta gtcagagaaa tcaaatgttg tggttcggct tatctacgga 300  
ggatgtaccc ggttgagcga tacatgaaga tctntaaagg gtatacaaag aatctttatt 360  
gtctaggagc atctatt 377

<210> 24271



<211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24271

tgaggagact ntgaatcaat ttatgcaagt aacaatgtca aatcataaaa gcattgagtc 60  
 aaccctgaaa aacgttgagg tccaagtggg acaaccggcc aagtagatag ctgacaagtc 120  
 atccaacagt ttcgtgtcga atacagaaaa gaatcccaag gaggaatgta aagctgtgat 180  
 gaaaatgagt aagaggtttg tgaagggtgga ggatgaggat agtggtgtat ccaagaagaa 240  
 agctgctgaa aagaaaggta atgatgaaaa gaaagatgat gtgagagggtg aaagaaatca 300  
 ggaaaaagaa aaacaaataa tgggtcaagat aaagaaatta aatgaccaag aaaaagataa 360  
 agaagtagaa aaagaaaaag aatatgaaaa aaatgaaaaa gatgaaaaaa taagaatgaa 420  
 gagaggagta g 431

<210> 24272  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24272

agcttcatgc gtcgatcatt ttgttatatt attgcatcca cacttcttgt ataccggggtt 60  
 ctctctcttc ttctttatgc ctttgatatt gcatgtgggg aggcctatgc aagttttgat 120  
 tcaacccttg cttgtaattc tatccctgat ggaagttggt gttgttaaag aactgctcat 180  
 agtgattggt cctccctctc acataattaa gtcacatccat ggcttgagcc aactcacctt 240  
 ccacagtgca ttctcctaga ccatgaacac atccacacct atcacaagtg tgattgggag 300  
 gtgtagagat aggcacttga gacttagctn tcattcaact ctgaatttct tggacaatgc 360  
 tnanatctat c 371

<210> 24273  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 24273

[illegible]

<400> 24274

<210>	24275
<211>	415
<212>	DNA
<213>	Glycine max

tctccaacat	ctacttttga	taagccttct	tgtctttaac	ctggactagg	agacatacat	60
cagcgtgtga	tatacatatc	agacgtgtaa	atatttgcta	ttgacattgc	acaaggacat	120
cctaccactt	caacctcgaa	gttaagcaaa	tcaaaaacac	ttaaatccca	aaaattaaaa	180
agaaccaccc	ccaacctaaa	tgagcacaac	taaacaattc	ccaagtatcc	tatagttgct	240
atcaaactaa	ataaactaca	actataatga	tcctcaaagt	acaggctctt	taacagggtca	300
caagattaac	aactatgtgg	atatgctgta	tntaagctgc	ttgaacatct	cacaataaca	360
taaaacatat	ccaataagta	aagcttattc	catgtttgtc	catatctaag	aagct	415

<210> 24276  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 24276

tgtttcccaa gtttttaagt tcttcctcaa aactgtccta agcaaagttc ccaaagtcct 60  
 attaacaact tccgtttgcc catcggtttg tgggtgacaa gtggttgaaa ataacaattt 120  
 agtgcccaac ttgctccaca aagtcctcca aaaatggctt aagaacttag agtccctatc 180  
 actaacaatg ctctttggca aaccatggag tctcacaatc tccttgaaaa acaaatcagc 240  
 cacatgggaa gcatcatcaa tttttttaca tggaataaaa tgagccattt tagaaaacct 300  
 atcaacaacc acaaaaaatgg aatctctacc attgcttggtt tttggcagcc ccaaaacaaa 360  
 atccatggat aaatca 376

<210> 24277  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24277

tgctctaaat ttacattgat gttcgtatct atgggattag gctgcatgcc catttttttt 60  
 agtagtgtcc cactggtaaa actaactttc caaatgtttg ccttcgcagg aaatggcccc 120  
 gaggaagctn gcctcaaaga ggtccaggaa ggacaaggca gccgaaggaa ctagttccgc 180  
 tccggagtat gacagtcacc gctttaggag cgctgtacac cagcagcgct tcgaggccat 240  
 caagggatgg ttgtttctcc gggagcgact ggtccagctc agggacgacg agtatactga 300  
 tttccaggag gaaataaggc gccgacggtg gacatcactg gttactccca tggccaagtc 360  
 tgatccagaa aagttcttga gtttatgcc aatgcttgcc acagatgagg cgtgcgt 417

<210> 24278  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<400> 24278

agctttttca aagtcaagtt tgaaaaccat gcaggggtta tttttgaatt tagcttcaac 60  
 taagacctca ttagctatca ttacaccatg gaggatatgt ctgcctttga ggaaagcaat 120  
 ttgcctttca tcaattaagt gaggcagcac aagagccagc ctattagcca ggactttgga 180  
 cattattttg taaacacacc ctatgagaga gatgggtcta tagtcattaa gagattgggg 240  
 gctattgggt ttggggatga gggctatgaa ggatgcatta cttcctttgg ggaatctgcc 300  
 attaatgaag aattcatcaa agaatatgat aaaa 334

<210> 24279  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24279

tctacataat tggagagttc tagagtgaga aaggttcttg ttctagagag tttgagagat 60  
 tttgttatgt gaagatctgt aaagaccaga gctggaagag gaagccgtcc tgagagctta 120  
 agatgagttt gtgagtgatt gtgaggttct agaggtggag gagacatccc cactacttgt 180  
 atttctgcaa tctttcatct ttctcttctc tttgttgtaa aggaagtttc ccagttatgg 240  
 aaagctaaat cctctgttgg atcttccttg taggtacttg atgtaaataat ctaattttat 300  
 ctatttaatg atattttgtg tgttactgt gctatcaggt cttcattcta ccatgctttt 360  
 gccttgatca tgtagatgca tgtgtntnta ggatcattca atagtggaaa 410

<210> 24280  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24280

agtttttagg atgtgttcat ttgtgtaaac aacatctaca tattagaagt aattcatgct 60  
 cacgtaacca taagcagcaa taatgtgtga acatggatag tgaagagcag aatactttcc 120  
 gcattgacaa taatggatcat tcaagttaac tgcccacttt tgtccgccac gttgcgttct 180  
 aggattgaag gtctcctcta cttcaaacct tgtcgaatgg atatcataga cgcggacgat 240  
 gtgcgaacaa gcttgttctt gatTTTTntg aagttcttta acaaccttaa aacaatatac 300

ttggccttca ttttaatttg tttgggcttg acgaccacga tcaacaaagt actttcgaac 360  
ctactatat 369

<210> 24281  
<211> 401  
<212> DNA  
<213> Glycine max  
  
<400> 24281

ctcagcttta ctttttcttg gggagaagcg tcttgatggt taaaatgctc tacatcttcg 60  
gatgactaat ggttaacgcc aacaaaagtt agtccaattg gtaaagatta gactcattat 120  
ataaggacag tgagttaaag agggagtcct tgagaccgca cctaaaattt tattcacaaa 180  
aaagaaaaag aagaatgatg gctaacaatt aggttactgc ttcttcgaca taatatctct 240  
atttaaaaaat gttccatttc acctaacaag acacttggtg gttatgcatg cttccatcgg 300  
tgagactatt attagtttct tgtgagacac caaggattcg tgatttcttt aagtgattgg 360  
atattattgc atggcttatt attaattgcag taatgattga t 401

<210> 24282  
<211> 358  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 24282

ttttgtattt tattttgaac gtcctggatt atcaaagac tctctccgat attcgatgcc 60  
aaagctattg cccgttgaat ttgctcagag ctggtgatg aaaatccatg gtcgcatg 120  
aataccggac tctatccatc atccgaatta aaaggtattg acttttggat ctgcctccag 180  
acactgttat caatatcgtg catgttgata tactgcacga cctcactcca cttccaaga 240  
aatgataatg tccttcgaat ttgagagagc tcgatagtca ttagcagcga cttgaatata 300  
aatgactcat ccgccatctg atgacagtca cattcttcga tctctacgac gtttgtgn 358

<210> 24283  
<211> 416  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations

<400> 24283

tgaaattaan aacaaaggct ctaagcaa at tcgaatgaca ataacttttg actcggatat 60

ccgattgagt catttaataa ttcgaaacgc tcgaaattga atacagaagc tctaagcaaa 120

ttcaa atgac aataactttt gactcagata ttcgattgag tcattttata atttgagacg 180

ctcaaaattg aatgcaagag ctctcaccaa attcaa atga caataactct ttactcagat 240

gtccgattga gtcccgtaat atatcttgac actcaaa atg gaaaacagaa gctctgagca 300

aattcaagcg aaagtaactt ttgactcaaa tgtccgattg agtcatttaa taattaaaga 360

cgctcggaat tgaatataga agctgtcaca aaattcaaat gacaataact ttatac 416

<210> 24284

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24284

tttatgcatg tttatagtca ttacttggtg agaaccataa gccaaagttg aatgttcctt 60

tgatatagta aataatttgt tttgtggcct tgagatgagt agtgggttga gtctccatgt 120

attgactgat ggtcagagta ccatatagaa tgtctggtct tgtggacgtc aaatatcaca 180

aactaccac caaactcttg aaattttag caccatctt ttttgcttcg tcaaactttg 240

ataacttcat tntgcactcc accggtattc caattggctt gcatagtttt gctatgaaat 300

gaagattcaa tcttcctttn gctttacctc aataccaaga tagtatgaca ttaatccaat 360

atc 363

<210> 24285

<211> 418

<212> DNA

<213> Glycine max

<400> 24285

tccttaagaa gattcctaaa gaagctagag cttagctaca catacctctc taatagctaa 60

gtcacctcc ttgaa atgag aagctagagc ttagctacac accccctata atagctaagc 120

tcaccccat gaaaaa atac aaaaaaaaaat cttactaca aagactactc aaaatgcctc 180

gaaatataag gctaaa accc tattctacta gaatggccaa aataca atgc ccaaatgaag 240

gaaaaaccta ttctaataatt tacaaagata atcgggctca tacttagccc atgggctcga 300  
aatctaccct aaggctcatg agaaccctag ggccttcctt tggatctctg gcccaatata 360  
cttggagtct tctatccaat gcccttgccg gataggattg catcattatg tacatatt 418

<210> 24286  
<211> 347  
<212> DNA  
<213> Glycine max

<400> 24286

caaacgacca taacttttta ctccgatgtc tgattgagtc ccgtcatata tcgagacgct 60  
cgaaatcgaa tgatgaagct ctgagccaat tcacgtgaca atatctcttt actcggatgt 120  
ctgattgagt cctttaatat aacgagacgc tctatattga atgttgaacc tctgagccta 180  
ttcaacgaca ttaactatth tctccgatga ttgattgagt actgtcatat atcgagacgc 240  
tcgaaattga atgttgaagc tctaagccaa ttcaaacgac aataactaat tactcggatg 300  
tctgattgag tcccgatcata tatcgagacg ctcgagaatg aatgttg 347

<210> 24287  
<211> 349  
<212> DNA  
<213> Glycine max

<400> 24287

tcaacattca atcttgagcg tctcgtgata ttactgtact caatcagaca tccgagtaaa 60  
aattgatagt cgcttggaatt ggctcctaga tgcaacattc aatctcgagc gtctcaatat 120  
attacgggac tcattcagac atccgaatag aaaggtatcg tccccgaatt agcttagagc 180  
ttcaacattc aatttcgagc gtctcggtat atcacgggac tcaatcagac atgcgagcta 240  
aaagctattg gcgatcgaat tggtcctaac cttacacata caatttcgag cgtctcaata 300  
tataacgggc ctgaatcaca catgccagta agaaggtatt gtcgcatga 349

<210> 24288  
<211> 258  
<212> DNA  
<213> Glycine max

<400> 24288

atcaaatacac tcctacatct catctctaac atgcattttc tttctttacc cactcctcac 60  
 gtttggtttt ttaaggaaaa acaccataac taaacgcgcc gcaagggatc cctatcgcac 120  
 cagatccaaa tttataacga tgggtgatca agaggagacg caagaacaga tgaaagccga 180  
 catgtcggct ctgaaagaac aaatggccta catgatggat gccatgttat gtatgaaaca 240  
 gctcatggag aagaacgc 258

<210> 24289  
 <211> 151  
 <212> DNA  
 <213> Glycine max

<400> 24289

tgtgacagac gccgctttga gagcgctata caccaccaac gcttcgagga catcaaagga 60  
 tcgtcggatc tataggatcg acgcagctct cttacggact acgactctcc ggatatagcc 120  
 gacgagataa gccgccggga tggggcatca c 151

<210> 24290  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 24290

agcttatgga tggaatactt acttggtgat gatgaacaaa aacgcaaaat ggaatcaaaa 60  
 aatgcgaaaa aggatgacct tagggctgca aactcgtcaa tcccgtgggt atggcttttg 120  
 aaagggggga agggaagttt ttgaatgcaa aaacgcccc cctttcgtca ttcttatatt 180  
 ttggtgcaga ggtggctcgc ccaagcgagc tcagctcgcc caggcgagct aacctgcacc 240  
 cccccctttt tttttttttt ttttttttat ttcgagggga acattaacca tgtcccctgc 300  
 cttatcaggg attagcattt tgctaactt gaacttac 338

<210> 24291  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 24291

ttgaaggtgc gtagtccacc attttccta gtagaattct ggtaatgtgt ctactatcat 60



tgtcatcggt tttttcgta ttgaggtgcc acttaagctg ccaggttctc tccacctttg 120  
ggcgtattct tttgaaagaa tcgtgccctc tttttgcaca tgttctatag ttgcatccta 180  
tccgaagaca ttatactgac actgcctaac gaaggcaacc actaggtcat tccaagaatg 240  
gactcgggaa ggttccaagt tagtgtacca ggtaacagct accccagtaa gactttcttg 300  
gaaggaatgt atcagcaatt ccttatcttt tgtgtatgcc cccatcttcc gataatgcat 360  
ctttagatgg ttcttggggc aagtagtcct ctcgacttg tcaaag 406

<210> 24292  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 24292

agcttataag atttaaattg cctcaatcat atccaaatat gcatgtgaat taggaagcat 60  
caacaagaat caagccaagg ctattgtgca cgcaatcaat gggacaaaac acaccaaattg 120  
attatgatga tggatggctc aaattctcac aaaggtaaac tcactacttt caaattgagc 180  
tttcaaaact atcatgacat gtagaggaga atcaaggatt tcaagtcaca aaatgtcaaa 240  
aactttttatt ttcaaaaaaa ttaccatttt cttgaacata tcctatgatt caaagaaaaa 300  
catgcaaagt cgtacatgca cacagaattg acccacaata ttaaactaaa aatccgacga 360  
aactaatcaa cattaacaga ataa 384

<210> 24293  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 24293

agctttcaac atgttccttc acaaataatc attacacagc agaaaactaa caaaaccacc 60  
catcatatct cccaaaaccc catacccacg aaatttaaga gagaaagaag tccacccaaa 120  
cctgaatttt cgaagtccca ctgtagcca cgcacttcac aatcccgaat atgctctcct 180  
ttcacgattt ggggcagaaa cgggcactaa aggttgaagc tttgtatgga gctttaatgg 240  
agaatgaggg aggaagaaa gcaacgtgag ggagagagaa agctgtctga aaaaaagtg 300  
aggggttgagt gaagagagag aaaagctttt tggtttttaa taaaagggtt tcctcttttt 360

381

agcttgcttg	tggagcttct	atggaggctg	gatctttgag	cttcaatggg	gtcctttaat	60
ggtgattttc	caccatggag	atgcagcggg	agacaaagga	aaataggtga	gaggaggcgc	120
catccattaa	ggaataagcc	atggaagaag	gagcttcacc	accaagatga	gccttgata	180
agaagcttgg	agaggatgct	tcaatggatg	aaaagaatga	gggagagaac	gagagagggg	240
ggagcacgaa	attgaaagaa	taaaagaggt	atacaagtgg	aactttgaag	catgtctcac	300
aagactctca	ttcatcagag	ttacaacacg	tgttacacat	gcttctat	atagactatg	360
tagcttcctt	gagaagcttt	attg				384

10166

<211> 394  
 <212> DNA  
 <213> Glycine max

<400> 24296

tcttttctgg aaagtccctt ccctgggttg tgttttgttt ggtattaggg gtggtgtag 60  
 gccttgatg tgcacgatt ggattttgtg gccgatttg cgatggcctt tgtggatgat 120  
 tgggcgttca tggctggtag ggtgggtggg aatgagaagg actgatattg gccgagtatt 180  
 gatattgttg ggctaattga aaatttggcc atgtaagaat ggtaggcaca acatgagttt 240  
 ctccctcctt cttattctct ctattttccg caggctctct attcatcaaa gcaggataat 300  
 caaatttgcc ttctcttaga cccactttga tccttatgtc ggccaacact aaatcaacat 360  
 agcttgaagg catgtacacc accatcttct cata 394

<210> 24297  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 24297

catctttgga tgtgtatact tacctgttga tgatgagcag aaacgcacaa aggactcata 60  
 aaatgcgccc aaggatgacc ctatggctgc taactcgtca atcccacgag tatggctttt 120  
 gaaagggggg aaggggagaat tttgaatgca aaaacacacc ccctctcgtc atacttatat 180  
 tttgatgcat aagtggctca gttcaaacga gctcacttca tacttgcaag ctgacctgta 240  
 gccactctt tatta 255

<210> 24298  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 24298

tgagagacct gtctgtcctc ctactctgct gccattgagg ttcattgttt ggttcgcaca 60  
 ggctcgatga gttccattc gtgactgctg cgatttaggt acgtggctgt agaagcaaag 120  
 cttcatgatg aatcaagatt gattcaaaga tgttttgatg ataacaagg tgatgacaaa 180  
 tagctcaaag gtcaatcaaa gaatgagttc aagatgttca agatagaatc aataacactt 240

caagattcaa gaggaaggtt gatttcaaga atcaagaatc aagattcaag gatcaagctt 300  
cccagaatca agatcaagat tcaagactca agattcaaga atcaagagaa gacttaatca 360  
agacaagtat gagaaggttt tttgaaaaaac 390

<210> 24299  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24299

cttttacact tctcatctc aagcttgtaa gattatgggg taccatcac atgtggtact 60  
angtggcggg cgggcgatgg tgcacaacaa tttttccaca ttcacaatgc gtgcataaac 120  
ccaccatccc ctgttgccca cctacatctg agctcacgta cttccacgta acccatatcc 180  
taggttgtct caacaccggg tccccatcaa tctcccaag cttccacaac atccaagcaa 240  
aacaacattc aaacagcaca agctatcaca gccaaagcaa acagagcaaa ggcagaaaac 300  
tctgccaaaa caccaaccaa atcacagctt ttctcactta aagaccccag taacaattcc 360  
ttcgttccaa ttc 373

<210> 24300  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 24300

tgtctttgga tatgatttat acatgattta ggacttgat gatccaattt gggcaaattt 60  
ggatgatggt aagggggatt tctaaatctt cccaatttgt gcagcaaaaa gctgtcaaat 120  
tttgtgcagc aaaaaattgt gtttgtgcaa aaaatgttgt gtattgctgg ttgtggaaag 180  
gggagtacat attgggttct ggacgcttct tagcagatcc caacggtcaa aatgtagact 240  
tatgtactaa ggacctccaa taaaaatttt gagtcgatcc tgatggaagc ttgcttgtga 300  
ggcttctatg gaggctggat ctttgagctt caatgaggtc ctttaatggt ggttttccac 360  
catggagatg cagcggaag 379

<210> 24301  
<211> 319

<212> DNA  
 <213> Glycine max  
 <400> 24301

agcttgtcaa cgtatatata agacgctccc aaggattata acaagaacat cactgagcat 60  
 caaagatcct agtatgaagc ttgtgtaatt ataatctcca atacttcggc ggagatgtga 120  
 agcatttcat aaactttaat ttcttatgtc aaccataaga ttaattcctt attcaaaact 180  
 tattcatatc taatgactta aatctattct tttaaagtag cgttttgtga atattgaact 240  
 cgatgaatgc actcattagc aaatggctcc ataattcata ttcttttatg gagcaciaaac 300  
 gaaatataca tttctatat 319

<210> 24302  
 <211> 235  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24302

gccctatagt gagtcggatt acaattcact gggcgctcgtt ttacaacgtc gtgactggga 60  
 aaaacctggg cgtacccaac taaacgcctt ggcagacatc ccccttcac cagctggggg 120  
 aatagcgaag agggccgcac cgaacggcct ttccaacaat tgcgcagact gaatggcgaa 180  
 tggcgctga ggcgnatatt tctccctacg catctgtgcc gaatttcaca ccgcg 235

<210> 24303  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <400> 24303

tttgcaagct tccccaacat ccaggtaatt caacatccaa atcatcacia actaataaac 60  
 caagcaaac agggcaaagg cagaaaactc tgcccaaac tcaaaccaaa atcacagctt 120  
 tttctcactt gaagactcca ataacatttc cttegttcca atttgtaac cgctggatcg 180  
 actcgaaaat attactggaa gtctctagta cataaatcta cattttgacc gttgggatct 240  
 actacaaac atcaagaact cattctggac tactctttcc acagccaacc acacacaagc 300  
 attgttctgc acaaagccaa aattctgctg cacctatttg acagcaaat ttgcataag 360

tcgagattgt caaaaaccac tc

382

<210> 24304  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 24304

ctatagaagg ttcgttccta atttctctac aatttcatca cctctcaata agctagcgaa 60  
gaagaatgtg gcatttacct ggggtgaaaa acaagagcaa gcctttgctt tgctcaaaga 120  
aaagcttact aaggcacctg ttcgagctct tcttgacttt tctaaaactt ttgagctaga 180  
atgcgatgcc tctggagtgg gaattggagc tgtttttgta caagggtggc accctattgc 240  
ttattttagt gaaaaactcc atggggccac cctttactta cccccctatt ataaagagct 300  
ttattcctta ataagagcac tccctacttg ggaacattac cttgtctaca aaggatgtgg 360  
gcttgatagc gatcatcaat tccttaagtc attt 394

<210> 24305  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24305

ntgaataatt gttgccaaaa tgtgctgata aatattctat ctttgtcaga aacaattgtt 60  
tttggaaaac catgaatttt gacaatgttg gcaatgaaaa cttcagccac aaccttgta 120  
ttaaactcaa acttcaaagg gataaagtac ccaaatttgg acaatctatc aactactgta 180  
aaaatggttg taaatccttg tgaaggaggc aattaaacaa taaagtccat tgctatgtct 240  
tcccatattt gttgaggaat gggaagaggc tgtaacaacc cagctgacaa aacatgatca 300  
actttagctt gttgacatat ggcacattcc ctacaaaatt tactaatatc acttctcata 360  
ccattccaat anaattgagc accaattcta gctac 395

<210> 24306  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 24306

tgctttaccg gatgacgccg atgcgagcat ttcctaacct acgtcctgca aagttcggtc 60  
 agggatcgaa ttgatatctc gcttgcgaca tctgtcgtga attatctgcc gatattattc 120  
 atccgacatt gcacgaccc tctagaaac tgtgtcaaat cgataatggt tttcttacgc 180  
 acaagtcata ctacccggat tgctgaagca taaaagcctg acgaggctct tgagggagct 240  
 ttctcacgct agtgcaaccg actcactgcc cccttacgaa cagataacct gcctgcgcac 300  
 tgcattatga gttaaccgac t 321

<210> 24307  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24307

agctttcata agtgaagtca ggtgcagcca tctccctaag agtcctctca cgaggtagag 60  
 tttgagccat gttctcaata tgaaaattag cagccgaatg ctcaaaatca gaatgttcag 120  
 aatcaccagc aacaaaatgc tcagaatgca tggaatgctc ataatgctca aaatgatcag 180  
 gatgcacact atgcctaact aatctatgaa aggttctatc tatttcagga tcaaaggggt 240  
 gcaaatcacc tggattgccc ctagtcatgc actatatgca gcaaatcatg tattttctcaa 300  
 acaagcacca ggggtaaaaa ggggtaaaac tacaactata ctctaacgat attgaaatga 360  
 gctgaanatt tgtgagcaac accct 385

<210> 24308  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
 <400> 24308

tctcccccaa ttttctataa atagggggag aagtgatgtg aaaaaggggt cagcccccta 60  
 ggcacttctc tctctttcga atttgcttgg aaaaattggt tccgtgaaga aaatccaagc 120  
 cgaggcgctt ccgtaacgtt tccgtgagga atttcgcgaa ggtttcgacc gttcttcatt 180  
 cgttcttcat cgttcttcga tcttcaacgg gtaagtacct cgaaccaagc ttttcgattc 240  
 attctatgta cccgtgggtg tccacattgt gtttcgtgta tttttattct cgtttcattt 300

actttttata ccccttttg acgtgcttaa gccattttat ttaagtcatt tctcgcttaa 360  
cctacaaata aaataaattt ccaccgatcg tttgaattgt atta 404

<210> 24309  
<211> 463  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24309

gaccccantt gatgccttgg atacccttga gaaaccacgc naantctagc tgagacccgg 60  
agtccacctg cgggcacccg agcttgtgct agatatchat aagcactact cggctgcaag 120  
gaagatccgt tagaacctcg aagcttatca aatccttata gctttaggca atgggggtatg 180  
acacaagtta agtttttgtt cactgtaaag tggaggagcg agcacagctc atctgtgatc 240  
gaacgaatta ctgcgacctg attaggtaaa cagcactaca atgccatata gtagaagttg 300  
aacacgacag ctgggggttaa agcagaggag accaacgaat tgcacaatgt gaaaatgaca 360  
atataatgta gaaggagtgt ttctacctgt agatgagctt atggatccta gacgaacact 420  
agacagattc ttactgggag aaagccacca gtaacactga act 463

<210> 24310  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 24310

tgaggagcat atagcctaag atattcatgt taataatttt acatgagtat gagacaataa 60  
caattttaaa ttattcattt atttttattt ttatttgtct ctttttatca cgtcataaat 120  
cttataatat ttatatttgt tattctctct tcatgtgtct tattcaagtg ttttatatta 180  
taatgagtat caataaaaata tttttatttg ttatataaca acaaactctaa tatagataac 240  
attcccattha ataattaata actaataata ataaagataa aactgacaca aggacatag 300  
tccttagaaa taaaacgtct aaacctaaat tgaaacaata acttatgcaa tgattcttca 360  
ttagtcaaga cacagagaac aaagaacgta aacttgaaca tcat 404

<210> 24311  
<211> 383



<212> DNA  
 <213> Glycine max

<400> 24311

agctttcacc ccataattcc cccaaatttg ggcaaatttg ctttgaacca aaatttcctt 60  
 ttatgaatga tgctccccta caacctaaga caaggtagaa ggagataact gtacaggctc 120  
 aaggttcaat caaacaatca tacttttcagc tcaaaatggg tgcaagggat aaatcaatca 180  
 tgcacaaggt aagcttttta gctacgtggc tatcttcaat caaaacttgg ccttcatcat 240  
 cttcaatttc acgcattcat tccatactca gagattcatg caaaaacat tacttaatgt 300  
 tagtcgttct ctcacaatta aagatcacac tctcaccggg ttgtggctaa tgcgttcttt 360  
 cacaatcaaa ctgtcaaact gac 383

<210> 24312  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24312

tccttattnt caataggga ttctatctat ttatctccca tccttaatgg aaaagggttac 60  
 cactactgga aaactcta atgcacatctt attgaggcta tagaccacaaa tatttgggaa 120  
 gccatacaaa gacggcctta tatacccacc acagtagaaa tagttacaat acatgggtccc 180  
 tcatctagtg aaagcgtaac tatagaaaaa cctaaaaata gatgggtctga agaggatata 240  
 aaaccagttc catacaactt accagcgccg aacataataa catctgcctt cgaatggatg 300  
 aatatttcac gggtttca 317

<210> 24313  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 24313

agcttatgaa gaattgttga caaggctagg tgtcaagcac ctctgtgactt ttgtcaaaca 60  
 tccccagacc aacgattagg tagaggcagc caacagagtc atccttaaag ccttgtgcac 120  
 aaggcttaac aagtccaagg gtttgtgaaa agaaaaactt cctagcatatc tttagacata 180

acactgttca cccagtc aa caaccaatga aactcatttt cgacttacat acgacacaaa 240  
caccataatc cccgtcgaag ttgaggaacc atcaacaaaag aggttggtttt tccaggaaca 300  
acaaaacaaa gagaacatgt ggggtggaact agagacaatg gacaaactcc aagagatgga 360  
cagaatcaaa gaagatgcc ccaa 384

<210> 24314  
<211> 325  
<212> DNA  
<213> Glycine max

<400> 24314

tatcttctaa acactgcagc cttcacgtta tccaagccta ttccgccagc ttcaatgccg 60  
caacctgaac ctattccgcc agtcacaatg gcgggactgc ccacgtatgc atgtcctgcc 120  
aagaagaatg gcggcatgca ctgaagccac ttttctcgct cctactcagc cctataccgc 180  
cagacgaatg gcgagttaag ttgagttacc cctgtcccc caaatgctaa tagcggcatt 240  
acctgtcccc ccattggctc tggcggttcc aaacttcacg ccattgataa tggcgaacac 300  
cattaccaaa agagaccccc ctgga 325

<210> 24315  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 24315

agcttgccat tagttaacac tgttccatta taattaaccg aagtgtcaaa cattttcatt 60  
caaatcttgt tactattact attttaagcc tcccctttgt tttcattcaa atcttgttac 120  
taaaaactat aaaaactaca aaaacaaaag tcaacatgta aatactatac aactaggcaa 180  
acaattttac ctctttttgt tcaagtatct tatccaattc tttgagctct ttatccaatt 240  
tttcttgaag ggatgagtggt tctagctcct ttgtgtcttc ttccatttca tctacaaaca 300  
aggtacatac atttaaaaac catcaataat taggataaaa tgccaatgca caaagagaga 360  
aaaatgaaaa ttaaggagcc caa 383

<210> 24316  
<211> 401  
<212> DNA

<213> Glycine max

<400> 24316

cttgaggagt ttattgatct ctgaataaaa gagcctcttt ttttggtgtt agttttgttt 60  
caaaaccaat tcaatgagac ctttggttgt ggtttgaatg gttcaattgg ctaacttgat 120  
ggttcaacca aggacaaacc aaacaacatt aaaagatacc aaaaatctgc aactttggtt 180  
aaaatgtgat cttgaatctt cttttctgtt atattgctaa ctcatctcat gtatattaaa 240  
cttgtatttc acaaaccttg tcttacaagc tacactactt aaccggaaat cctttgatcc 300  
tcaaacatca caatgggtttt aaaaatagta taagtgttaa aacaccactt tggaatctaa 360  
taatgggctt gtgtagttgc tgaaaccttc acatctggct g 401

<210> 24317

<211> 350

<212> DNA

<213> Glycine max

<400> 24317

tcaattcaaa tctcagagag cgaatcttgg gttattctcc ttcacacaaa ggttacaagt 60  
gtctagctgt tgatgacaga atgtgtatct ctaaaaatgc catcttcaat gaaaatagct 120  
ccccttatcc taccctatct cttgagccat tottagcaac ttgaggttcc taattctaca 180  
tccaccctta ctgtgttacc ttcctctcag cttgcatcat catctagtaa cacaataac 240  
accttatcct cacttcatct cattcatcat ctgtttcacc tgatcacagt gaacagcatg 300  
cagcttecta gcacttttca ttcacaaccc ttgaatgtca ctgatataga 350

<210> 24318

<211> 373

<212> DNA

<213> Glycine max

<400> 24318

agctttttat aaatcactac taaaatctaa agatgatctg aagttcaacc aaagtcttca 60  
gtcgcctttt ttcttttggc catgttctta tttacgttta atgtttttgt agactgtgag 120  
tggaaggcgc acgccggtaa catatgtgtt gcatcatttg attggagctg cagtggaaac 180  
tgtaagtcag tggagaagat taaatatgtc cactctaagt gtggtgaagg aaatggagca 240

gtttgaggatg ctctatctta gattgtttct aaaagggaga tggttttttc tggttggggag 300  
aggatataat tgcagctggg acaaagacaa agacagtttt cagatttgag attgagcaca 360  
taggtataac atg 373

<212> DNA  
<213> Glycine max

<400> 24321

ggaaggggca cccatatttc ccactcccag tatctcttct aacaaaatca ttcttcttac 60  
acctatattg accattcctt tcacaaccaa ttaacacata tgaactcctt gctctactac 120  
taatcaaggt gtgagacctc ataatgattg caacaaatac attttcatga gcaactgatc 180  
aagcccatg cataacatca tctcggatac caaacaccta taatgcaacc taaacaattt 240  
tagtcttcta caacacattc attttatcaa atccctcaca ataatgaaca ttattactcg 300  
agaagcattg aacgcattcg aacaatcaac atgttggtca t 341

<210> 24322  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 24322

tgtttgcaag cttaatcccc tgagaattga gggtagggga tttgccttgg attcaactag 60  
ggattacttt ccttatcacc cttatgttca atatgttcga taaataaaaa tagtgttttc 120  
ttttttgata tgtgcatgag agtttcaatg ctagttgtca cacaaatgta ttacacaaaa 180  
gtacctatca cataaagagt ggctatgcaa ttcagaatgc atcaagaagt ctaagattgc 240  
gtggctacat tctttggaac caaaggcatt gcatggaaaa attactacat acccatatct 300  
aacgggaatt tctatttacc tgcttgctt ttgtgagggga gatgtcacca catgttatgc 360  
tagatgggtg aagtaccca t 381

<210> 24323  
<211> 550  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24323

tctacagcca tcattantat tctanantan gtatttatta gnagtactgt atgtatctct 60  
tgtaatagca ccgantacgc cantatacca cccacacata gacacacacn ccgcnccttt 120  
tgaacctng ttgaataccg ttgctatcta cgcgacacta tanaatactc aaacttttgg 180

cggttagaat ggaggggccc aagaataccc tgtgttaacc ctgggaaaac cggaaccatg 240  
 ccataggcct tgcactgcag gcagacttag tccagcactg cctttcttca tgtgattatc 300  
 aatgattact tctggggcac tcacctctg accctctggt ttctgattct tgacatcaag 360  
 aaaaaataaa tgctggatta caatcaccat ctcttttatt taagtgtgga ataactacta 420  
 tcttccattc atttccctaa aatatcatga aatatatctc tctctattcc ttttaatacct 480  
 gttaaaatca aagaataaga ctaaatccgc ctataagaat ttaaaactca attcacctga 540  
 aataccctcc 550

<210> 24324  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 24324  
 atcttctatg tctctcccag tggggactgt attcgatcac cattcaattc taacatgtca 60  
 ttagcctcag taacttaaca taacataaca ttaacagcca ccaactcatc aacaccatcc 120  
 atctctctct ctctctctct ctttgagtga cattagcttc gatatgacag gtattaattc 180  
 acatctatct ggccatcatc ccggtcaaaa agagagaata aatgacccat tatcatttat 240  
 tatttattaa tctactttta ttctatagca gtactagtat tcctatagag ctctcaactt 300  
 gatatttaga gagcaacgtc actggtaaatt cttttccttt atcaattctt tattgggtgg 360  
 gtaggtatct ctggg 375

<210> 24325  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<400> 24325  
 gaccaagaaa taagcttggtc tggtgatatg cgactttatt gagtttttct ttaggacga 60  
 aagcaggcct tataccaagg catgaacatt gacctcttt gtaatcaatg agtacatgac 120  
 tgatatatca ctctttaaag ggtaagatat cataaaaaat ctctgtgtga tacgaacatt 180  
 attgatatta cacatctaatt ttatatgtga tgtaatgata ttacgaataa taatataagt 240  
 tgtgaaaaaa ataattaatt tttatggaac gattactct 279

<210> 24326  
 <211> 508  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24326

acaaccgccc cgaaccacca catggcaaac tgcgatgcat acctaacccc caccaggcnn 60  
 cncttgagcc ctgaagcctg aagcacccgg cncannngcg cggccccggg gccccacagc 120  
 caacagcagc ccgcagcctg cagaaaccca ccacggccat agaggagcgc gagggcaacc 180  
 acaaagaccc aaggccccctt attcttctgg gcaggcgctt agcgacaaac aacgcgtgcg 240  
 cagactaaga aaggaatgcg caggccacca acaaaaagag gagcgtcagc aaaagagagc 300  
 ggcagcggaa gaagccaccc accggagaag accaaagagg atcgcaccca acgcggtggc 360  
 ggaaaagaag ccacacgcag cgctccattc caaagcgaac ataagaagga gatagagggc 420  
 cgcgcttggg agaagagaaa acccaggcgg aaggggagaca aacacagtca tcatattgga 480  
 gaacgagcga ccgcgataac atggatag 508

<210> 24327  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 24327

tataaagaag tttggcagtt cttgccttac tttttggttt tgtgggattg aattaatcaa 60  
 ttacgtctta agtccaaatt ctaagatggt attaaagctt atcctagatc aattgttggg 120  
 ctacctacat ttgccacgct ctatgctagt aaccatgggc gtgagagggg gtgatgaaaa 180  
 gctgccttaa ttgtggtaaa ccctagcagg gccggccttg gtggttggtt tccgatgcga 240  
 ccgcccaggg cccatgacta aagggggccc aaaaagaaat ctagatagct atagtgtgag 300  
 gaggaaaaaa aattcaatga ctttttagtgg caactctatc tcgtcggctt tctaatactc 360  
 ctttaattct t 371

<210> 24328  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 24328

agcttaagaa atagaaacaa tgataaacat ttatatctaa cattgataaa tatttatcat 60

ttaaaatcac atacaacaca tcatttatat ctatgcacaa tataaacatt ttaaaatttc 120

aaaataagat ttcacaaaaa aaaaatatca gaataggaca atgaaacaaa atctgatttg 180

gttttaggac aacgaaaagt aacaattcca taagctgaaa atttaagctt taagaaaagg 240

tctactgaga gcttttactt ttgtaaaagc taaaaaaaat taataagcaa acactcttaa 300

gaaataaaga aaaccttttt ttagaagata agatgccgga aggtcttttg ggttgcattc 360

aaacggat 368

<210> 24329

<211> 340

<212> DNA

<213> Glycine max

<400> 24329

tttaactgaa ttgcaacgt tccaattgct ttttaaattgg tgtaatcgat taccagtgc 60

tctgaacgtt gaaattcaaa ttaaattgtg aagagtcata tcttttcata aaatgctttg 120

tgtaatcgat tacatggttt tggtaatcga ttaccagtta cacgttttga atagaaagtc 180

aagagatata actctttcaa tggttttcag ttctttctca aggggtataac tcttccaatg 240

gttttcttga ccacacatga agagtctata aaagcaagac cttgacttgc atttcaaaga 300

gacttacaac tcttacaact ttttgaacat ctctttgaac 340

<210> 24330

<211> 380

<212> DNA

<213> Glycine max

<400> 24330

agcttgctca atatgtgtt actacaacca atgcatatac ctattcattg ctttgaacta 60

tcaaaacata ttcaacctac cttgaatata atattctatg agtagctttt gaagtagtgt 120

ataagagtat ttttgatgg ttattattga aaaactatct tatgaaaagg atattgttct 180

ctctcaacaa ctcttctga aattggatct ttgatatact ttacaacttc aaatgttgaa 240

tgctcttttg caagagaaaa gtatcatagt caattaagtg tcaactattca acctcatttt 300



ctagtgcacct ttgatccac ttcacttagc tgggtgtaatt gattgataat gtatgaatat 360  
gcccacacctt ataaagactt 380

<210> 24331  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24331

ctatacacia ctcaagcttt gtaacaatcc aattttcacc ttatagaaat gaatctttta 60  
tgctcgtctgg tgtattntaa gaggtttaat cattttaata tttttaataa aattgaaatt 120  
ataatttttt taaaataaga ttgtttggta tgaggaaatc aaaatgcatg caattgaggt 180  
tatgtcttgt ttgatatttt aagcatacta acttttgatg tgattgcaa aaattatata 240  
tatcttcgtc cttaaataa acattatatt aatttggttt gtcttttttt ataaaagtct 300  
ttctaagttg acttttgcac taattttttt accagatat ccttagttat tctatagtag 360  
atgttatgta ctactgaaca gataaatgta taatatctca tcactactat aaaaaagatc 420  
ttttaca 427

<210> 24332  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24332

ttcttgtaat ccactctttt ctgtcctcat tcacacttat tttttccncc ccaagcgcn 60  
ttgagcctga acctggcaac cagccagccg gatccgaaga ccaccgcaga gcagctgtca 120  
aatcttaaaa aacagaaagg cggctcacat gtcggtgatg acatccctcc tctggctgaa 180  
gtaagagact tgatctttac caccgtgggg cgcaaaggca ataacttgat ggcactcactg 240  
catgcgaagg tatctgcgct gactatcatg tgacatatta tgcagctgtg gtacgtagcc 300  
tgactacacc aattaacatg ggtgatgcta tgagccattt acaagcttac tcccacatga 360  
gggccctagg aatgaacaac atcctcttgt atgcgcagga caagtgcctg accaattcaa 420  
tcgtgcaag 429

<210> 24333  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 24333

actcaagctt ataaactttc tgcgatgaaa tctaacaaat aatatttttt attcatttct 60  
 cttatttctca tctcactttg ttttatgacc acaacacaga caaggagtga ggcatagtct 120  
 taaaaaatta aaataaaaga tatatggtac gtaaaagtta aatagtatgc atattcggct 180  
 aaaacataat aataatgtag tttataatgt tagtcaagga ataaaatagt tcaattgtaa 240  
 agacaaaaag taggcatatg gttataataa gtatacatga tatttttcgc tatatgttcc 300  
 gaatgtgaat ggtaggatg atgaactaat ttatataatt aaggggtgtg tatcttcttt 360  
 ttcacacaaa gagatttaaa ttaaaattct ctattattta attaaattcc tttgatat 418

<210> 24334  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 24334

agcttgcctt gccccttgat atatttgagg gactcatggt cactatgaat gacaaattcc 60  
 ttgggataaa ggtagtggtg ccatgttttc aaagcccgtta ctaaggcata caactcctta 120  
 tcataagttg aatagttaag ggtaggacca cttaactttt cactaaaata agcaattgga 180  
 tggccttctt gcatcaacac agccccaatc ccaacatttg aagcatcaca ctcaatttca 240  
 aaagattttt gaaagtgttg caacgcaagt atgggggcat tagttagctt ttgcttaaga 300  
 acattgaaag cttcttcttg tttctctccc catttgaaac caacattttt cttgagcact 360  
 tcattgagag gtgct 375

<210> 24335  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 24335

tcttggcaat cctcattcca gcgatcagtt tggtttttgc gtaagagttt gaacaacggc 60

tcacaaatgg cggtagctg cgatatgaat ctggcaatat aattcaagcg tcccaggaaa 120  
 cctcggactt gcctctctgt acggagttct ggcattctca ggatagcctt caccttttcg 180  
 gggctctacct ctatcccttt ctggcttaca acgaaaccaa gcaatttccc tgatttgacc 240  
 gcaaaggtac acttagcggg gttcaacctt aattgatatt tcttaagcct ttcgaacaac 300  
 ttccgctggg tgacaagggt ttcttctctg gatttagatt tagcaattat gtcgtccacg 360  
 tagacctcga tctcttgatg ca 382

<210> 24336  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 24336

agctttgagt agtgacaagc acttattggc acataaacac gtgccacaa attggtctct 60  
 ctgttgatca taacatcttt ggcagtgaca ccacgttctg atgccactgt gctggataca 120  
 ctaggcacia tctaaggcct ttctacacgt tcatcactgt ggactcttat gactacttgg 180  
 atttcttcag tgatgatttc acgttgctgg ttagtggtgt cagcttgatg gatgtgcctg 240  
 agtgaaacgg cagccatgtt aagatattga taagagtga acctcgaatt ctcttacgt 300  
 ctgagtgatg acatagtggg gttatgattt gctcctt 337

<210> 24337  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 24337

agctctgaaa gcatgcgac tttgacacac gatatgtgaa cttagaacaa ccttgctact 60  
 gcctcgacag tatectgca gacattcgga actcgtgctc tctgacacta actgatgacg 120  
 atgacagcga ctaaccacct ggaccatgga aggagatata ggaatgcctc tcttatatta 180  
 acatgcccta tgaagcttac catctctagc ccctactcat actcgtacaa cttagcagcg 240  
 catactgata gctagagcga tgaacacgac gcttataact tctgatgtac ctcccttgac 300  
 gtgaatcacg cacatatatc tatgaatacc atacagacta tctaacaggg atgaagacct 360  
 atcatgaatc 370

<210> 24338  
 <211> 291  
 <212> DNA  
 <213> Glycine max

<400> 24338

actcagctta ttatattatt gttaccaaca tgccgaagtt gtctttaatt tttattctta 60  
 aaacaaatat cttacaaac atgcctcgac atgtaaattg taatgcaccc acacgcgcga 120  
 cccttgaatt tgtcaaaca cgataaaaac ctgatgctgc ttgctagttc tcggtacatc 180  
 attctggcag acccatttga ttattatggc ttacgtatat tttagtacta gcaatgtaat 240  
 actgattagc ttttaattact ttttttgaaa gtcaaataag atatattcat t 291

<210> 24339  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 24339

gctatataag ctgaaccatt ttatctttta agacatgttt agttctattc agaaagatag 60  
 agtctatctc ttttatctta ctgagagtga ttctcctata ttcttgagtg attcaagaac 120  
 accctggctg tatcaaagga ctttcacaac ctttgtgtgt tgccctcgct ggaaagagtg 180  
 attctttcct tcctttcatc ttcacccttg ttctttcaaa ccacaattcc agagaatcca 240  
 cctctgccca gaattatctc gtggccataa ctcccattgt acgcactcaa attaagtgat 300  
 tcttgagcct atattgaatt tcaaaacgag accttcaccc tcgttttgga atcacctcat 360  
 ttggagccct gcattctcaa ttatt 385

<210> 24340  
 <211> 539  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24340

ctctactctc cgtacgtctc tccgcttcac gcacgatttg cgctgaatct tagattaaat 60  
 cttgntaact cacaccaca acgccacacc tgantctttg aagcattgat ccctcggcga 120

atctcactcg cgccccgaga tcctctagag tctaactgca agctatctta tcttgataag 180  
acgaattgaa aaaggcgaac ttcttagtac tcttgacaca atacggtacc tgaaatatgt 240  
cgcggggggtc agaaaccttg tggatgtcat ggggggtgct attaccata tccaagcatg 300  
accaatcctg acccaacccg gacatagcca agcagtgaga tacctgcat gtacctaatac 360  
aagcagagcg tcttgtcagt caacagataa aacgaactaa taccacaagc atggaggctt 420  
gtgagggtggc tggccaactg tcaatcctgc gtgatatatg gggtatggcc tctgggtactc 480  
gattaccatg ggtgggttat cgattacacg actataaatg aagacaggag gttcagacg 539

<210> 24341  
<211> 281  
<212> DNA  
<213> Glycine max

<400> 24341  
atgctattcg tatcttgca agggacatga tcattttagc gatattcaat ccgagaaaat 60  
ccaggcagag acaatcaggt aactgtaacg ggcccaattt gttgcgcatg tcattttctg 120  
ctttaagtac ttggggccgg cactaggagg ctagccctga tcaacagatg ccatttcacg 180  
ttctacaagc ggaagcgcta tggaggcacc tagttccttt aatccctact tatttagtgt 240  
tgttcttttag gtgatggcgg atcctaatta cctagggctt t 281

<210> 24342  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 24342  
gcgcgggtttg catgcttcac aacacacata cagaggccca tcggggaata gaaagacgct 60  
gtcactgaca atatagttag cgcaacggac gacgtgaaca atcagcctat acctagcaca 120  
cataaccatc tactgtttta aatactagcc ctcaaagcta aaagtctgga taacaatata 180  
tgcaagcgta tcatgtgatc atctttatctt acaaaaagggt attctattca atgacctaac 240  
acctcaacc ctcaggaga atacgaaaag cgtcggatcc gaagcacttt gaaattattt 300  
cgcttcgga tgcattgatac tgaggcatgg acatacatgg ggcacaagag tacga 355

<210> 24343

<211> 374  
 <212> DNA  
 <213> Glycine max

<400> 24343

agcttatgca ttgctgctta ataaaagaag agaaggatgg taagccttgg tacttcgata 60  
 tctaatagata tagcaaaaac aaggaatacc cgcgaggaggc ctctggcaat gacaagagaa 120  
 cattgcgaag gttggcgggtt ggcgggttggc ttcttcctaa gtgggaatat cctatacaag 180  
 aggaaccatg acatggtgct atttcgatgt atggacgtcg aagaggctaa gcaaagtctg 240  
 gtagagggtgc atgaaggatc atttgtaaca catgccatgt cccggaaaat tctgagagcg 300  
 aggtattatt ggctcactat agagagtgat tgttgcatcc atgtgagaaa atgccataag 360  
 tgtcatgcct tcac 374

<210> 24344  
 <211> 524  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24344

ctcccacaac actatatatg aaattaaggt cantcgtatc tcgattctct gcgccggcac 60  
 aaactcccac gcccgcgccc cctggacccc cgttgaaacc gttgctacaa ccgcgacacc 120  
 atannaaact caagccttgt agatatagtg gtggctagtg agatgatcca attttctttg 180  
 tgaagaagaa aattcgatta tgctgctttc atgaataaga agcctgcgac ccatggacag 240  
 aatcataagg aggggggaaac ccatgttgtg actgttgctc ctacatggcc aaattgccc 300  
 ctagctcaac acatatcaat acctagccaa tatcagtcct ctttattacc ccccaccct 360  
 ccagccaaga acaccaatc attcccgaaa gccaacccct aattaaccac caaacccgcc 420  
 tggttgccct ttcaagccct aacaccaccc tttatatcga acccactaca cccaaccacg 480  
 gaaaggatat ttccacaaag aaaccttgta gaattcactc cctc 524

<210> 24345  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 24345

agcttgccctt ttagagggtcc aggaaggaca aggcggcgga aggaactagt tccgctccgg 60  
 agtacgacag tcaccgcttt atgagcgctg tacaccagca gcgcttctag gccatcaagg 120  
 gatggtcgtt tctctaggag cgacgcgttc agctcagga cgacgagtat actgatttcc 180  
 aggaggaaat aaggcgccgg cgggtggacat cactgggttac tcccatggcc aagttcgatc 240  
 cagaaatagc ctttgagttt tatgccaatg cttggccaac agaggagggg gtgcgtgaca 300  
 tgagatcctg ggtaaggggt cagtggatcc cgtttgatgg ccgatttgct tgacttcttg 360  
 ggagggagtg gaga 374

<210> 24346  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24346

tctatctagc caagatcata caattgtgtt acaacatttc ctcacggnat ctaattatgt 60  
 gggccattaa atctatcatg tgttgacagt agttgactag cccgcgaatt tcttctaagg 120  
 ctgaacatac ttccggcgatg gcctttgctt tggctagtag acgcaggagg tcttgacttc 180  
 catttaatgt caaggcgaac ctatccatcc acatgtgtgc ttcttgatgc aatgcatcaa 240  
 tcacccttcc tcttgcttcc ttctcagcgc acgcttgggc caagtctctt actaatattt 300  
 gttcatgggt aaaagactgg tttaactctt ctttgactg ccctattata actagcatgc 360  
 tttgcttcca 370

<210> 24347  
 <211> 547  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24347

tcgcgtacac acgtcacana catcncagta ctgtgttact actgctgaga cgactagctc 60  
 gantttaaca catcgnacc actacacagc agaagagaac gttttgacac ctggnagctt 120  
 gaaacatagt agcgcattca accgctcagc gcgaaccatc agagccgacc ggcattgtctg 180  
 cacgcttcag cattgacggc gaattaaaga agagaaggat ggcaagccct agaacttaga 240

tatcacacga tccagcaaaa acatggaata cctgcgaggag gcctctggca aagacaagac 300  
aacatggaca aggctgcag aacgtgcaa ggcataccca caagcggaaa catccataac 360  
aagaggaacc atgacatggc gctacaccca cgtatggaca tcgaagacgt caagcaaagc 420  
tggtacaagg gcatgaagga tcaatcgga cacaagccat gaccagaaa atcgcgaaac 480  
caagcatatt ggaccactat aacatgatcg cagaccaagc aaatacgcca tagcgtagcg 540  
ctaaccg 547

<210> 24348  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 24348

agctttgtca tagtgcattg gaatcctagg aacacactct tttaaaccacc ctttctctaa 60  
ttggttaaaa tctattgaaa actacaaagt tgggagaaaa tcattaaata tgatgtagga 120  
cccacaaaat tgtcagtttc aataaatttc aacttatgag agtgtgttaa aaaaagtgtt 180  
gcatagtgtg ttccaatat ttctctgctt ggattactgt cactctgaaa caaataatg 240  
tgcagcatgg ctgatcaaaa tgtgggttta ggtagtggag cttttgtcg ccagtaagct 300  
aaatgctggt gatattcaa tttagttcgt tggtaattta agtccatgta ttggtttagt 360  
cacttggttg ataattttga agtac 385

<210> 24349  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 24349

tcacattgta caactcctgt tacgattaaa acgaccatta aattcaaaat attgccaaaa 60  
acaattaaat aaagacaaag cgaaacgaaa taatttaact tacttcttcg agcaaaactt 120  
tttgtttctt caagtcttct atactttcaa gaaaaaattc ttccttgagt ttcttcagtt 180  
gacacaaaac ccaaaaatca tataaaacat ttgaagaag aagaaagaaa aaagcacagc 240  
cccaaaaccc taaaaaaaat atagttatgt aaaccatttt ctttttggtt tcaatcaaaa 300  
aaggcttgta gccggcgagg aagagaatgt atggggcgagg ggaagactt tttgtatcag 360



tacaatgcac ataaatataa ttctgatatc atcttctatt ctcacac

407

<210> 24350  
<211> 395  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24350

ctcaagcttg caaagttatg tctcgatcgt gtttaattga ttatattctt atcgttatcg 60  
attacatagt ttttttttag acaatgattg atttatttag gagtctctgc tttactcggg 120  
tatcatgaga tataatcgat tacttctctc tctataagtg ttttagaagt gaacaagaac 180  
actttaatca attactttga gtatctaate gattacattg gtcttgagtt gtttccagtt 240  
tttgggaata acactttaat cgattaaaaa gataatctaa tcgattactt cattgaatta 300  
attgattacc ttatagattt aatcgattac aggagttat aactattttc tctataaata 360  
accatcttgt gttctctcct anacactaca gaaac 395

<210> 24351  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 24351

agcttgccac ttaccagtag aaatggagca taaagcataa tgggctttga agttttttaa 60  
ttttgatgag gctctatcag gggagaaaaa gaagctgcaa ctcttgaggt tggaagaaat 120  
gagactaaat gcatgagtcc ttcaaattgt acaaagaaaa agtgaaggct tatcatgaca 180  
agaagctgct aaagaaatac ttccgatcgg gtcaacaagt tctattattc aactcaagat 240  
taaagctggt tctaggcaag ttaaaatcta aatggcttag accattcacc atcaaggagg 300  
tcaagcctta tggagcagtg gaattatttg accctcaatc agaaacttca gatagaagct 360  
ggacagtaaa tggccagaga ttg 383

<210> 24352  
<211> 358  
<212> DNA  
<213> Glycine max

<400> 24352

tctaaacttt atacaagaat gaagctctga taccacttgt tagacaagtg gcctcagata 60  
tcttaagaag ggggggttga attaagatat tccaaactac ttccccaatt aaaaatctat 120  
ttcacttttt attcaagtta taaattacct taataatgaa cttcttaaatt attgattcaa 180  
ataaaacaat ttgaatataa atataaagca ataataaaca aaggagatta agggaagaga 240  
aagtgc aaac tcagatttat actgggttcgg ccacaccctt gtgcctacat ccagtc ccca 300  
agcaaccgcg ttgagagttc cactatcttg taaattcctt ttacaagttc taaacaca 358

<210> 24353

<211> 379

<212> DNA

<213> Glycine max

<400> 24353

agcttggcgc cttaatgtca gaatgaagtc actcatgaag tacgtttcat aagagattgt 60  
gttggcagta ccttgaacct gattgttaat ttacattga agaataatgtg gggatttaaa 120  
aataataaca cttgttttaa gcttattgag aacgtgaatt caatatcaaa atattaccac 180  
atttaattctt gctaaaacac ctatagacta gagattagag attaattcac atttcacaat 240  
cattgttacc aactcttgga ctgcttggtg attgatagaa ccaatgtaat gtaaaggcag 300  
aaagaacttg cactactaaa aaattacttt gttacgacgc acattcaaag acggttatac 360  
ataatcatct tagaatgtc 379

<210> 24354

<211> 405

<212> DNA

<213> Glycine max

<400> 24354

cactatacac aactcaagct taaacacaat tatgcaacat aaaatagaag ttgccatttt 60  
atataatata tttaaaatgt gctctctaag ttgataccta acatcataat aacataagct 120  
gattgcgatt tcaaagttct ttatactctt agaaaaaagg tccatacact ctcaatttct 180  
ccttttcttt catatcttat gattaagaga acacattctc aaatcaagaa aacaaaatca 240  
tatgaactgaa tcgaatactt atcttctaatt gatgtttctc tgttcacaaa taaaaccaa 300

tggttgaact tagttaagtt ataatcacta ccatgaatag cagaaaaagg tcagtcatca 360  
 taaattgaat taatcatttt tacaccctaa gaagtaatca taaca 405

<210> 24355  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 24355

agcttgacag acttgcaatt ctcacaccta tcgagggttac cattctcgac atcggacaac 60  
 attcgtccat gcttgggggc ttgaaaaact cggcactctc ctacttgtca agactgccac 120  
 ccccggcatac atgcaatctc atttgacact ggacaacctc tttcgctcgt aagccggctc 180  
 atagcttggg ggacttatgt actgaccaga gatcacaaaa tacacgagac atcttccatg 240  
 gtactttgag acacacgtaa accctccatg ttagctctag cacaagagca cgggcaccta 300  
 gcccttaaga gtcaagcttc ccgactgata ggttatctct gacctttaat tgttataata 360  
 taatgtcatc ccttcatctc tt 382

<210> 24356  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24356

ntctctttcc ctatatattc cccttctcct tcacctttac ctccccaate tgtttctgta 60  
 cctattaacc agccaaacac taaccacacc tcctctgcac ccaactcctg tagaactgac 120  
 agaattcaaa ctagaccacac caaatacatt gactatcaaa ccagtttcac atcagccatt 180  
 gttaccaatc atccaggcac taaacacctc atttcttctg tgatttcta taacaagctc 240  
 tcttcatctt atcacagctt cattcttaat gtctctgcta attctgagcc taagtcttat 300  
 aatgaagcct gtaaacaatga ttcttggggt caagctatgc atgatgaaat ttctgctcta 360  
 gagaggaata atacatgggt gctcactgat ttacctcaac ataaaaatg 409

<210> 24357  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24357

agcccattga ccttgatgct ttgaaaccag gcaanaccag cggagtcccg ggatcctcta 60  
 gagggacggc aggtttgcat gtttatatag gaacctgagt aaacactctt ttaagatcct 120  
 tcttccttgc gttgaacact ctgccaattt tataagggga gataaaaacg ttatattgct 180  
 tgcacgcgcg cccatatacg agaggaatgg agatttctga atgctgtgta gtgcatacag 240  
 ataaaaactc tggggattgc ctcatttagc catcggtgct tgctgacaca ctgagccata 300  
 cattctactc gtcgatgatt gcgtactatg ggtgacgaga agctaataca taacatggat 360  
 tgtgactact ccctctgtga gaacgagatt acaccgttta tgaattacca tggatttaaa 420  
 ctgcattgct atgttgaatg c 441

<210> 24358  
 <211> 104  
 <212> DNA  
 <213> Glycine max

<400> 24358  
 gattctccca gaattgaaat gggttgcgag ttacaactaa ccttcttcac attctcggca 60  
 aggtcaatca ttggaaattc acctgcaaga atgaagtatc aaca 104

<210> 24359  
 <211> 546  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24359

ctaacactct ctcacatttc tgancctacn ttcttgtgct gggcatatt agattcctta 60  
 ncnatttcga actcancaac ctctccccgc agcnnnnttt gatcccttgg agtcggtgat 120  
 tcctataagg cgaattcgag ctagtcccg cggatcctcg agagctacct gcagtctgca 180  
 gctttgactt taactttact tactaacgtg acttttaatt tctaactcaa caatctatca 240  
 aatcagagcc gctgatcaat aatacgcaaa caaggcatat ttctctaact cgtcaggctg 300  
 tctcacacca tactcattct tgcctatggg accagaaatt gattttttta acaccatgac 360  
 gatgataact tctgtaataa gatataataa catgtatttc gttttatcat gtattaacac 420

atattgaagt cctataaact gccaccacc tcaaaatgta cctcactttt gatgtataat 480  
aagcggttttc atcgacagga aacagaaacc cggatgggtt atgccacata aaaaaagctt 540  
ggcctt 546

<210> 24360  
<211> 467  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24360

gtgcgcccc ctttgaacct tgttgaacgc gtggcataac gagaccnnnt nganaantaa 60  
gcttatcgcc aatccactag cccctactgt aacttaaaat attatgttca caaagcctcg 120  
acgagctttt gcataaattg gcccttctag aggaccacca ccacttccga tatttttctt 180  
gcacacctac actattcatt tccatttctg aatccgcacc atattaaacc cgaggtggag 240  
gcgctctgat gggtcatact tcctttgggt ggaatcttca agatcaccca cattctgtta 300  
atatcacctc cctttaaaga catgaaatgg cccaccatcg ccttctttta catggaggga 360  
cctgtgttgg ctttgttaca gtggatgacc cccaaatggc cgcttacctc aagggctggt 420  
ctccttaagc attggaggct cgtttgtgcc cgccacatat gaagatt 467

<210> 24361  
<211> 361  
<212> DNA  
<213> Glycine max

<400> 24361

agcttgtgtt tttgggggtgt aagagagcac acaagtgaga gcatattagg tgggactccc 60  
cgttaggcca acacttgata agcgctgtgc gataattgtt tctttgtgcc taaatgatgt 120  
gaaatgcttg ctgataataa gtatgtgtat tgggtaggta gtaaagcact ttgccaatat 180  
gcatgggcgc tggaaatggc atgaaaaatg cttctttaaacc gggaaactat ggcgagaaat 240  
tactctttaa aatgtgaaca agtagtggaa atttctgcct ttcccctgaa tgcgtaattg 300  
cttttcaagt gaatacacat cagtacggcg gcgcaccacc accaccacct cggcaggccg 360  
a 361

<210> 24362  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 24362

agcttatgct gcaaacattt acaacagacc tcctcaacct cagcagcaaa atcaaccaca 60  
 gcagaacaat tatgacctct ccagcaacag atacaatccc ggatggagga atcacccctaa 120  
 tctcagatgg tctagccctc aacaacaaca acagcagcct gctccttcct ttcaaaatga 180  
 tgctggccta agcaagccat acattcctcc accaatccaa caacagcaac agccccagaa 240  
 acaacaaaca gttgaggctc ctccgcaacc ttccctcgaa gaacttgtga ggcaaatgac 300  
 tatgcagaac atgtagtttc aacaagagaa cagagcctcc attcagagct taactcgcca 360  
 gatgggacaa t 371

<210> 24363  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 24363

tgccgcccag ctgcccagg cgagctcatc tcgcccattc gagcaagggtt gcttcctcca 60  
 aaagcaaccg ccttctggag gaatcttctg gagggcccaa atgggectgg gtgctatatg 120  
 cccccccatt tttactaagt acacccccct ctgctgtttt ttggtgatac tttttcgta 180  
 aagttacgga aacttacgaa tttcgtaacg ataactgggtt tctttccgta atgttacgga 240  
 accttgcgga ttacataatc atccgctttt tgacttacgg aatgttacgg aacctcactt 300  
 aattatgcaa cgatgcttcc atttgatttc ccgtgtgtca cggaaactta ccgattgcgc 360  
 atcaatat 368

<210> 24364  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24364

agctttctct ttgcaaaaat tcattttttg gttgggtgtt ttggtttgtg cgaaagggtg 60

agttcgtcat tggaagtgcg gtaaacagac tttgtggttg atttacggat ggcctttgtg 120  
gataactggg cgggtgggtaa ggagaagggtg tggtattggc tgagtaaaga cattgttggg 180  
ttggtgggaa acttggccgt acaggaatgg cagtcacagc atgagtttct ccctcatcct 240  
caccctctgt atttgccta gctntctcat tegtccaagc aggatgatta atattgcctc 300  
ttttcagatc cacttcgatc tttttgctga cgaataccaa atctgtaaaa cttgaagggtg 360  
tgtaaccac 370

<210> 24365  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24365

cagctntttg aatcaaagat tctaattatg attgatacaa atacatattt atacactaaa 60  
atctttaagt ctttgcataa taagaatgtg tttggatgag agaattttaa attttgaaaa 120  
attttaaatt ctaataattt caaatacttc aactgaaatt cttttatttt caaatttttg 180  
tgtttgata aaaaaattaa atttgtgaga gagaaagaaa atgagtcgag agtttgagaa 240  
agagatttcg aaaactttta tgttggaaga gaagatgaat gtttggtata aaggaaatac 300  
agaaactttt tagaaggaaa ttaaaatttc acatttttgg ttgttaaaat tctgttttaa 360  
aattccaaaa atttaaattc ttcataaaaa atatccaaat 400

<210> 24366  
<211> 330  
<212> DNA  
<213> Glycine max

<400> 24366

tgagctatag aaatagccca aacaactccc tctagtccat gtgcgaagaa agaaagatat 60  
ccacatataa aacatatcct cttataaag caccagagta atcatgaaat aacctaccat 120  
atctaaggga accatgaaat gattttacca accttgggtg catgaatatt gatgttaaaa 180  
gctttgatga cctgaaactc actcaaagag gatctcatat agcttgaagt aagataaccg 240  
gccacaagc aacatatgag caaacataag gatcattgct tgctgctatg agacaaaaag 300

attatgaaag caggcttgat tgtggaactt

330

<210> 24367  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24367

ctttacattc attaatcaac aatttaacac gtatatgata tcaaatttcc ttttttagagc 60  
tatacttact aaaatctaaa gttgtccctt tgtacggtgg acgtggccaa agtaagctct 120  
aaaaactcgc acgtcgaact gagagtagcc ctttgttaaa aggacaagaa gggggacctg 180  
caaaataaag gacttctgac ccttgaataa agtacgagag ttaacgtgag aaaaaaatat 240  
tgttaaaaga gtgagataaa acctggtact tatatagtgg aatggaagct gcccgtcctt 300  
attggttggg attgttaccg tgttgaaca acccctgcag ataatgacta gctttagat 360  
aattgtagct tacagataat gtgtaccttg tagataattc n 401

<210> 24368  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 24368

agcttcaatt tacaaccata ttgttgaagc tgtaataaaa gatgaaggtg gtatggtttt 60  
tctctatgga tatggaggta caggaaaaac atacatttgg aaaacacttg caagttcact 120  
gagagctgac aataaaattg tcataatggt agcctttage gccatagcgt ctctgctatt 180  
gtcttgatgt aaaactgcat attcacaatt taaaattcca gattgagttt ttgaagactc 240  
aacttgcaag atccatcatg gaactcaatt agctgaacta ttaactcaga caagtctgat 300  
catttgggat gaagcacgca tggatcacat attcagtgat gaagcacttg atcacagtct 360  
tagaga 366

<210> 24369  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations



<400> 24369

ntgaggggtgc gtagccacc atcttttcat agtagagtat cgataatgtg tctaccatca 60  
cgattatcgt ctccctttcc atcattgggg gtaccacttg ggccgccaga tccctccacc 120  
ttttggggcgt gttctttgaa agatccgtcc ccctttttgc aaatgttctg tagttgcatc 180  
ctatccagaa ccatatcaaa attgtactga tactgcctaa caaaggcaac cattangtcc 240  
ttccaagaat ggactcggga aggttcgaag ttagtgtacc aggtaacagc taccaccagta 300  
agactntctt ggaaggaatg tatcagcaat tctcatctt ttgcgtatta ccccatcttc 360  
tgacaataca tcttttag 377

<210> 24370

<211> 379

<212> DNA

<213> Glycine max

<400> 24370

agtcttatgc acatttgaga gttcacatca agtgtgaatg ttattgaaat ttcactctca 60  
agctactata ctatgtcttc ctatgaacga gctaattaat gctaataagg actacgcagt 120  
tataatggcg ttaagttttc gttcacaaga cacacgcctc tgcattgtca tgaatgcact 180  
gatctaagta gttatacgga tataatggca gaataaatat gcatgtccca acatcgatct 240  
aatctatcaa ttttattaaa tctaatttaa aaaagcactg ttcttaattt cactatcata 300  
tttatttagt taaatatagt taattaatgt ggcaaggctt ttgaataactt gctataatga 360  
tagaaattat aatactgac 379

<210> 24371

<211> 335

<212> DNA

<213> Glycine max

<400> 24371

tggtagttga tatgaaatca catgtaagca tcatcaaaga tgcggagaag gtaatagttg 60  
tgtacttgag ggggtgaggat ggatgccatc gaatatatct tagcggaaaa agcttcaata 120  
ttacatcgga ttataccacg ccagatcta agatataaga tgtgggcaac acctaccctt 180  
gatttacctt gtgaggatga gtgtcatcca aagcccatgt tatcgatggc ctctacgtgt 240

aatctatatc caatggtctg aacgcgcgtc atgtatcaca cacactatat tatcaaatgc 300  
gctagacttg gggcgggtgta aagataaatt ttaaa 335

<210> 24372  
<211> 322  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24372

tgtacattag aatccctctg tcccgtgcaa gagatattat cgttgntaag ggaaaaaac 60  
aagagaactc aagttatcca ctctatTTTT actaagaact acgtagggtg caacattgca 120  
cccatagaat aacacatgct agtatataaa catcatatat aagcccacga ttataactg 180  
cgaaatagca ccttatgccc aagatattta ttagctaact tgtgatggag aaactaaaaa 240  
caatcacatg tgaacttgta atagattatg acacatagta acgttttgca atcaatcttt 300  
gaaacatcct tatattaatg ac 322

<210> 24373  
<211> 360  
<212> DNA  
<213> Glycine max

<400> 24373

gagttttgct ggtttaacat tgtgagggac aacatgttgt aggccaatag aatgcgcac 60  
cttcaagcgt gcgtaagctg tgatgacttc taatatactc gatcatttct aggtggatac 120  
ctaagatgag atacctgaga tcgtggagcc agagctgatg tgaattccat ggttgtcact 180  
tctatcgctt acattgtagc aagtgatgaa gaactcagtt ggattatgaa tcttgcaaaa 240  
cgaagacgtt gtgacaggca acgccagaat aatatatgag cgcttttgag ctgaagacga 300  
tgtcaaagat ggatgaccc atgaagatcc acataggaga ctacttcag ctctatgagt 360

<210> 24374  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 24374

agcttcaaca ttcatatTTT gagcgtctcg taattttacg ggactcaatc agacatccga 60

gtaaaaattt attgtcgctt ggattggctc atagattcaa cattcaattt cgagcgtctc 120  
 gatataattac gggcctcaat cagacatccg agtaaaaagt tattgtcggt tgaattggct 180  
 cagagcttca acattcaatt tcgagcgtct cgatatatga ccggactcaa tcagacatcc 240  
 gagtaaaaag ttattgtcgt ttgaattggc tcaaagcttc aacattcaat tttgagcgtc 300  
 tcgttatatt acgggactca atcatacatc cgagtaaaaa ggtattgtcg tttggattgg 360  
 ctcagagatt ctacattcaa t 381

<210> 24375  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24375

ttgagcaaat tcaggcgaca atatcttttt actcgtatgt ctgattgagt cccgtcatat 60  
 aacgagacgc tcgaaattga atgttgaagc tctgagccaa ttcaaacgac aataactttt 120  
 tactcggatg tctgattgaa tcctgtcata tatcgagacg ctcgaaattg aatgttgaac 180  
 ctctgagcga attcaaacga caataacttt ttactcagat gtctgatata gtctcgtaat 240  
 atatcgagac gctcgaaatt gaatgttgaa gctctgagca aattcaaacg acaantaact 300  
 tttactcgga tgtctgattg agtcccgctca tacatcgaga cgctcaaaat tgaatgttga 360  
 agctctgagg aaattctaac gacaataact ttttactcgg at 402

<210> 24376  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 24376

tgtcttgcaa gtttgaagac accttggaga agttcatgca agcctcattg actaataaga 60  
 agaatagtga ggcttcaatt aaaaacctag aaactttggg aggccaaacta ccaaggcaac 120  
 taatagacca ttttggagggt tgattttgag aaaacaccta atgaaatcct aaggagcgtt 180  
 ggaaggctat taatacaaga agtggaagga ttattgggag tgggtgtcgat gataacttgg 240  
 ctaaagacga tcaagtggat ggaggcaagt tgtacaaggg taagaaaaat gatagtgaga 300

gtgaagagga atccaattaa aaagatagag tgtatagaga ataagactca taatatgagg 360

gtg 363

<210> 24377

<211> 227

<212> DNA

<213> Glycine max

<400> 24377

tggacatcct ctgaggacaa taccctcatt tcttgactg aatcggtggg aattggaacc 60

catcttttca atcaaattcc tagcctctgc aaggggacaaa taacctagag ctccaccact 120

ggtagcataa atcatactgc acttcatgtt gttaagacct ttatcaaact attgaaggag 180

atgttcggaa atcttgtggt gagggcatct tgcacacaac ttcttga 227

<210> 24378

<211> 330

<212> DNA

<213> Glycine max

<400> 24378

gaccttagaa actcagcttg ccttggttta gacatgaagg atatgatacg tttcttgtac 60

gaccaaattg ggcaaaattg gatgagggaa agagtgggtt tcgaaatctg cactttatgc 120

agaatttcgc tgttgaaatg tgcagcagaa ttttgcttta gtgcagaaga atgctatgta 180

tctgctgggt gaggaagggt tagttcctat ggggttctgg acatttgcta gcaaattcca 240

acgggtcaaaa tgtagactta tgtactagag acttctagta aaatcttcca gtcgatccaa 300

cgggttaacga attggaacga tgaaaatgta 330

<210> 24379

<211> 578

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24379

cttcccatcc ctctacctct ccacatttca tagcgaagac atattagtcc tctcacatcc 60

atttcacacc aggagaaanag tgaacgttga anctgatgca tcgaaaccca gggaantcaa 120

ccgcaccccg ggatcctcta cagactatct agcagggcatg caatcttatg cccacactac 180

cttacaaacg tgcacctgcc caagacattc tattaaccga ttaaattgcac ccacactcaa 240  
 gctatggcag tcttgccaat ccttacacca tctatcacgg aaccttccca acgtcgact 300  
 ttggttactg taccatcaca cgacaatact cacttcggcc tataatatta ccaatagcac 360  
 tgctataacc tcaaattgcac tttctggaga gtaccaacaa caattgacac accggtacac 420  
 cctcatcgac atctcctaata acccaatata tacaccaacc ttatgacgaa acctcgacta 480  
 tctacacaac gaggtgctac atttcatgct ttgttcaagc gacagctacc ataaaccgga 540  
 tgcccatacc agctttacca acattagcta acaaaaag 578

<210> 24380  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 24380  
 agcttgaatg gagcttacat cactgccctc cggcgggggc gcgaaaaggt ctctcgcatg 60  
 ggccaagggg tgtgtcttcc attgaaggaa aacacgtgga gtcaccacca acgtttattc 120  
 gagggaaaacg tcagaaaaac caaaaatgaa aaaggctcgaa ggtttgcata ttttgaaaat 180  
 gaaggtttgg gagttgttta cacacgggga aggtattagc accccacgcg cccttcataa 240  
 gggacaacaa cctctaataca agtgtgcaaa tcatgatttc aatattattt atttcctac 300  
 ctctaataca gtgtgcaaat catgatttca atattattta tttccctttt atctttattt 360  
 tccctt 366

<210> 24381  
 <211> 212  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24381

ttagagtttc cttttgttaa agaattatgt cttntgttct tgaagctata atataatgat 60  
 ctgtcttcat ctattcatgt gcctctaccc attctcattc atttgcattt ttatttcctt 120  
 gttacgctta aaaagatata gtcttgcgaa ggtactaata ccagtgaccc cgccgtccat 180  
 ttctggcaaa aagcaagtct ggtagagaat ga 212

<210> 24382  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 24382

agctttggag attttcagtg ccaattcgcc ttcttcttcc gtccagtctt cttctggctt 60  
 caattcatca gtgggctatc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120  
 gacagctttc caggttctgc tatccagtga ttagaggaag gccaccattc ttgctttcca 180  
 gtattcatag ttggttccat caagaattgg tggctgttc actggtcctc cttctttctc 240  
 catgttcac agattttatc tccctaaatc tcaactctgag atttcgagcg ttggctctgc 300  
 atccaattga aattctgata ctggggacag atgtcgtaca ggatgccacg acttcacgct 360  
 tcataacact cagattgtat 380

<210> 24383  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24383

ccccccctt cacaacacag gatatgagag attcaatcac tcaactactc tantccccag 60  
 ccancnccc ttgaacctgt attctgttcc tcacaaccac nnggagaaaa gatgggtgca 120  
 gcccataagc cgatctcgaa agatctctgg ttttccacag aagttcaaga ccatagccat 180  
 caaagtctga aaagagtatg atgaactaaa gggacgccat atggccaccg ctcaagcttt 240  
 tgaacaaaaa acccagaacg cctgaaaaga aaaacaccac ccaagccaag ctctgagggg 300  
 ccttaaattgg gagaaataat gagctcaagc ctcgaacatg cgaagagaaa ccatcatggt 360  
 caacagcatg aacttgaaag acgaactaaa agcctgcctt agtcgaaaag aaattggcca 420  
 acagataatc aaactgacgg aaatgtgggc cgcatacaga aggcaagaga aacaacctaa 480  
 cggcac 486

<210> 24384  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 24384

agctttacatg gggtttctaga agtccaaagc agatgacgga cacctgttaa tcacataggc 60  
aaccgctgtg cgcagcttcc ccccatatgg accttggcag gccagcactg agcaacatgc 120  
accacacttt atccaatacg gacctaaaca tacggtcagc acaaccatta tgctgaggtg 180  
tgccaaggac tgtcaagtgc ctttaagatac tcaatttccc tgcaaaacac attgaattgc 240  
tctgaaacag actacaggcc attgtcattg cttaaaactg ataatatagc accaagttga 300  
tttccaataa gaggacgcca ctctctacat ctttgaaaag cttctgactt atctttcaaa 360  
acatacaa 368

<210> 24385

<211> 380

<212> DNA

<213> Glycine max

<400> 24385

agcttgtatc catggcttcc tatggtggtg agcttgttct tgactcatct tctccttgaa 60  
gtggcatctc caatcacctt tccttctttt ccattccggt gtcattgatc ttcaagaagc 120  
aaagggtctt attgatgaag aagatccaat gcttacaagc tctatatgga gctacatcag 180  
tttatgagat atagggtgaa gttgtgtata atatttgatt gatatcattt tttgggggat 240  
caaggatatc atgcatatgt tacaatttag atgcaaacia aatttgcata gactaaccac 300  
ccaatttggg tgttgcaaca acattatgaa ctaaaagaga aaaatgtcca acaataaaaa 360  
ttacctttga agtaagggtc 380

<210> 24386

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24386

actcaagctt tcaaantat tgaataaata agcaactaac taaaacttaa agttaattac 60  
atctactgaa aataaaatgt ataaaaagtc taagaaataa atccaaatcc tgtcatggct 120  
catcctgtgt cggttgagggc tcatccagag gtgaagagga agcatcctgt gccggcaaag 180

gaatatcttg agccataata ggccatgggt cccaggtgct ctgtgctgcg gtcatatcaa 240  
 ttgcataatc cgcatacagca acgccatcct cctctttaga gaccttcaaa ataggtgaag 300  
 taactggtga agctggtgaa gtagcctttg gagtggcctt tggaactacc tctagatgag 360  
 gttctgactg aagctcctgg gc 382

<210> 24387  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24387

agcttctttt gatctaaaat gataggaatt taacttgttt tgagttttta tctagaggat 60  
 gctaaagtta gtaaatttac agtatttttg ttctattttt tgtaaagatt gacacaatag 120  
 gaggtaaaga tattgaagaa ctggaacaac gcgctcagtg cgataacacc tactcagcgc 180  
 aaagagccaa tctgaaggcc aactatatcg tgcaatagtg cacaattgac agcttagcac 240  
 atgatcactt aagccaacta gactttgcat atggactcag ggagcacatg caagcctagc 300  
 gcacaatcat tgtaaaaaaa tatcattgtg taacattnta aaaggaaaag gagggggaaa 360  
 aactgtgcc attaag 376

<210> 24388  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24388

ctatacacia ctcaagcttc gacggaagtg aagtgcggtg aattgcgggc gttattgttc 60  
 tttatatata tgggaatcga aatgtaaaac gagggtttct gtttagtggt aaaatcgcaa 120  
 tttaagagtg tagaagccca aaggttgaat gtcaatgagc taggttggtt gctttcagac 180  
 ccaatagaaa ttcagaggcc cattgttggt gtcataata atattattaa aacttttcaa 240  
 ccacgccaca tggttttttaa atntatttat ttattttatt caattactca atctattatt 300  
 cattatttta ctgtgtttct tttctttgaa aatatgcaca atgcatgaaa ttcaatgcta 360  
 gttgttcaaa taacatgata aaagtggaac atatggaaac aacgaaaa 408



<210> 24389  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 24389

agcttggcat tttatgtctc ttatgtcatc agggtgactt aggctaagtt actagataat 60  
 tcaatgagca ttagatgcga cacatgagtg atgtccttgg cacaatattt cacactttta 120  
 aaatatattg cactttcctt tttgattcag aatgatgatg gatgagccta aagggttttgt 180  
 accctagttt gacgtgtcag tctaaattac gtgttcccaa catggcatgt cgagcattgg 240  
 tgggatatta aggtgtatat gatcattccc atatatatgt tgtgatatgc atacataact 300  
 gtcattattga tgataaccga gtgaagtctg ggaagaccaa aatgcatttt gatatgtctt 360  
 acata 365

<210> 24390  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 24390

tgtatagtat atgtctaag agtaatgact cagagcttat atgatgttat cgacaactca 60  
 caaaaggata taaaactatg tgcaataata tgtaattca taaggggacc tgtaatttaa 120  
 cgtcatattc catttcaaac agttttatct tatatcaatt atatgttttg tcgtcattaa 180  
 ttagataaag gaatgtgatt ccggaagaa attattatta caagaaaaaa aaaattaaaa 240  
 tgacggcgct aattttataa acccgtgcat ctaatcagat aaagcattat taagtaaata 300  
 taaagtaagt atacgctttc tgcataagta atcgagagca aatcaagaag aaaagactaa 360  
 gctaaacgca acctaaatta attaaactct aagatgtcga cgggttaa 407

<210> 24391  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<400> 24391

tccactattt tcttacgaaa ataaaaatac tttgaaaata gtttataata gctaagagtt 60

attgaactaa tgagtgaat acacttctaa aagatgagaa aataaaatac ttacaatatt 120  
 taattgagag aataaatatg ctatttattt taatttatat aaatacataa attagtaaat 180  
 aatatttatt cgaagagaat tgactggcat gtaatttgg ccaagtatac cttaaaaaaa 240  
 aatacataaa ctaagaataa atttacgaca ttgtcgccat catttttggt actcaaagt 300  
 tattttctgt cggaattggc ttatctgct 329

<210> 24392  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<400> 24392

cattctaaat tagagattga tacacaaatc atagctctat gcttagcatt ctcataacaa 60  
 ttaagttcat actctcaccg gggtatgggt caagctttgc tttctcaatc aatctgtcca 120  
 ctgactaaca tttctaactg tgatcctact ttcttggtct ttctcatcta catacatgct 180  
 cattcaaagc tcatgacttc aacacatgct tcacccttcc atgcaatcca ttcacaacac 240  
 caatttcgca caaaaataat tatgtttgca ctgcataact 280

<210> 24393  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 24393

tggaggctgg aactttgagc cccaatgggg caccttaatg gcgattaccc accatatgga 60  
 gacgcagcga aagacaaagg aaaagacgcg agaggacgcg ccatccgtta atgaataagc 120  
 catggaagaa tgagcttcac caccaataag agccttggat aagaagcttg gagaggatgc 180  
 tcctatggac gaaaagaaag agagggataa agacagaggg ggggagcaca catatgaacg 240  
 aagaaaaaag gacagaagtt gaactttgag ttgtgtctca caagactctc attcatcaaa 300  
 cgtacaacta gtgtgacaca tgcttctatc taaagactac gtagcctccc tgacacg 357

<210> 24394  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 24394

tttgcaagct cttggtgcga aggtggaggc tgatcaatta ccacataata ataaggaggc 60  
tgacaataat gatgatattc atcaacactg ctatggctac gatgagatgg ctgtggaggc 120  
tattcctgta tactgcagaa tggctgactg tacaccatgt gataataggt accctgtgct 180  
tgcattgtcat aatgagcctg ctactccaca gcctgcttct gcatatacaa tcaactgaaat 240  
tatgaatgta ttacaagttg acaataaggt ggatgaaaag caagtctctt aacctgcaga 300  
tcacgggaat tctaactcaa tgcacatgct tttcttggat gccaccatt gctatgatgc 360  
gaatgagtca ag 372

<210> 24395

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24395

tgcagcatta aaagtagcta tagggtaaac cttccttctg aaattccctt gcttgcctaa 60  
gaatacattt ggcattttta taggtgtctt atgttggttg ttgagtctat cccttttgct 120  
tttgaaaaca atagttaaaa cttaagatgg agtcttatag acgcatccaa cattagaatg 180  
atcgacgtct ctgataatat cataaattaa tttgattaat tctcacgggtg ctttgcagga 240  
tttcgatgct atgcctctgc agctatatca cccttccatt atatgtctt gtaactcaag 300  
tataccttca cgtttttctt tccttagctt tctgtgaga cattcttgca aagtttgatg 360  
atntcatcaa atcatatata at 382

<210> 24396

<211> 372

<212> DNA

<213> Glycine max

<400> 24396

agcttgcaat tttcgcacaa agaattctt cctctcgctt tctctcgcc ttcttttaag 60  
gatggtttgg ttgtcttcaa atagatgaaa aaaatttcaa aaatttgtat ggatctgaca 120  
cttccttttt tctattttta ttcaaattt ttttctcaat tacctttcat tcattctttt 180  
tcacacaatc aaactgcccc ttaatttctc cctacctact acggcctcaa tgatttgtga 240

atatgccgat gacaagcacc aaagtaaaaa agagaaaatt aatttaattg ataatcttat 300  
 tttgtcttaa tcttatgctt cattgactaa tctaaaattt gacctaaaat ctaataaaaa 360  
 attattcata tt 372

<210> 24397  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 24397  
 tagatcattt ttttggtgag agcacgaaaa tattttccat ttactaagga attattcttt 60  
 ttctttttca ctttcttttt gctgatacca gattctgcaa agttaactt ccacattggt 120  
 atacttatta cttattagat gtttctctct ttaaaacat agaggaaatga ggaccgtggt 180  
 ggggtgggaag aaccgaagaa gacagatgat tttagtgaag gacttattgc ttctttcttt 240  
 tctccatta ttttgtttgt atttttcacc aactgaatga aataacaaag aaattcccta 300  
 tcaaagatct tacttattat tttogaagac atttctttct tatatgacgt tgaatgttgg 360  
 ccg 363

<210> 24398  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 24398  
 agctttgaat gtagtcatac ctcacaaaat atatgtatgt gtgtttaagt agcgaaaata 60  
 ccttagatat gcatgtatgt aatttaggta gcaaaaaaat acctcacaaa agattattat 120  
 ggaagggtat tactggctca ctgtagtag tcttttacga ctaacttttg tatataaaag 180  
 ttctcaaaaa tgtaaatatt tcacccaatt tatggttctt ttggtagga tagtaaatat 240  
 ttcttgttta atttttatat ttgctcaata gaagctatct gttggatttc ccctgtagtt 300  
 actttatggt ccaactgtttc tttgtacaaa tatgttcaag gaaaatctgg ttgccggac 360  
 agtacatcgg atc 373

<210> 24399  
 <211> 399

<212> DNA  
<213> Glycine max

<400> 24399

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<212> DNA  
<213> Glycine max

<400> 24400

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atgacgatga catgttcaag agcaagggca aggatccact tgaaggactt ggaggaccta 240  
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<212> DNA  
<213> Glycine max

<400> 24401

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agaatcatga aactggccaa atacaggcta aaggcccaag tggagaagga caaaggccta 180  
tgtggagaag gacaaagccc ccgagtggag aaggatgaag gcccaagtgg agaaagatga 240

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aactatztat aaggcccatg tctat 385

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<211> 383  
<212> DNA  
<213> Glycine max

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aatctcgttc cacctaataca cagtttttgt acacatatcc actctatcaa ttttctcttt 180  
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cagctggagt ttagtatgag caaattgttt tgacaaagta cctaaaaatt gtcttaattct 300  
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tgcgacagcg tcatcaaac ctg 383

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<211> 362  
<212> DNA  
<213> Glycine max

<400> 24403  
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gactgtgata ggatgcagtt tctcatgttg gtacacaaat ttttttatta tacgaatttt 240  
aacaaaaatt agccttagag tttaaattgt gaaacactct tagcgtgtaa atattatata 300  
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<210> 24404  
<211> 381

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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 aagttcaaag attttcagaa attctggagc ttgggttttt tttttttttg tctcaacttt 300  
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 <212> DNA  
 <213> Glycine max  
  
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 cattagaatc aactagttta catgttggct acacattgca ttagactcaa ctagattctt 240  
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 <212> DNA  
 <213> Glycine max  
  
 <400> 24406  
  
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tatctctaaa tttcaaccaa cgtgaaccac gtatattgaa ccttaacaaa atttatttct 180  
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 tttacaacc tataaaatct tcacttggtt tcacaaatga atatcaatta ttagatataa 300  
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<210> 24407  
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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 tccttgattt tttctttatg aaataaccat caatagtaac atcttctcga ctctcagag 240  
 gtacgagcaa cgggtgcaacc ggggtgtaac gtacgctctc cttcaccacc atattcaagt 300  
 aagccagtn ttctaagtca atttccctcca cgtgtctgtt catccccact acattntcta 360  
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<210> 24408  
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 <212> DNA  
 <213> Glycine max

<400> 24408

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 cacgttactg acacagatta tactacgtct ctccactata tgggctcgaa tagtgtgtaa 180  
 taaggatcat acttatcata ctatgagttt at 212

<210> 24409  
 <211> 207  
 <212> DNA  
 <213> Glycine max



<400> 24409

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tgagatatcc attcccttgc gacgccttta cgagggtgtgg cagagacttc cttgctatgt 120

tcgaaaacta taaaattgct ttcatttca aatgtagcgt ccctatccta aagacctgca 180

ttcttattct tccaaagaat attcttg 207

<210> 24410

<211> 374

<212> DNA

<213> Glycine max

<400> 24410

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gttccacatt gagcaacata accttaggaa tatctttggt cctatatata cagaggaaca 180

ccaagacctt aggagcatca aagaattaag tgggcttagc atcaatcgcg aaaccatta 240

tagttaatat ttctatctat ccctttgagt ttcaaactca atgcatgtag gcggcttggt 300

ttcgtgttat aaatcacact catgtttgtg ctatagttag agttgacgtg gagatcatgg 360

tggacgacac tate 374

<210> 24411

<211> 347

<212> DNA

<213> Glycine max

<400> 24411

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tgcttctcgg gtgtcctcaa atcagaaagc acagagaact gtctctgggt gcacctattg 120

cacatataca tcttggggca gaggtcctc ttgtaatgga tctcggcaca aatcattgac 180

ttcaaagggt ggaactcggc atgcctttgg ttccatctac acccttggtg agggcacgaa 240

tatctctttg tcacactatc ttctgcacct aaaaacaaca cattactctc ctttctgtgc 300

ttttcttcat gggatgcgca aagctgcact tgttttgact cttccca 347

<210> 24412  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 24412

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 cgaaattagg gtatgacagg agccaccaga accaccttag attgttttgt cttttttctc 180  
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 ttgaa 365

<210> 24413  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 24413

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 atatgaaaag atacaacctt gttaatatat aaaagtcaca aaatgatcac acaaactgtt 180  
 ttgcatcgaa aacgcgttta aaaataataa aaacaccgac ttcgtatggt ttacccttc 240  
 aaacaggtag cacccaaaag atatattttt gaataagttt tctgtctcct catcaatata 300  
 aagagaagaa acggaaacgg aaacagccat agcgaataat tgaaacaccc ataaaaagaa 360  
 caaa 364

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 <213> Glycine max

<400> 24414

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ggaggaaccc atgatgtgac tgtcgttcct acatggccaa atttcccact agctcaccaa 180  
 tatcaatact gagtcaatat cagtgcctttt cattaccacac caccctacca gccaggaaca 240  
 tcctattatg cacaaaggcc gtccctatat cagtcacgaa accccgctac tgctcattcg 300  
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<210> 24415  
 <211> 241  
 <212> DNA  
 <213> Glycine max

<400> 24415

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 attaatgaat aatccattga agaaggagct tctccaccaa gatgagcctg ggataagaag 180  
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<210> 24416  
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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 tattattagt attttttttt aacggtcttg ttgaagaacg gtagctttca ggtttgagga 180  
 agagtaaatt tgtcaatggt ttctgagagt ggatgggtttc gttggaggcc aagtcttggc 240  
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<210> 24417  
 <211> 535  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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gtataccata gccaacacgc gacacaanag ataacttaga ctccatctag tggtaatcag 180
agcacaagaa cttctgttta tgctccttac acctccatta attaacaggc taaccttctc 240
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acttgagttt agatttaaga ttgagcctag aggaccatt aaagctcaat gtatagctga 420
actcatggaa aatcctcctc ctataatgac caacaggaac aaaacgaatg tggatgctct 480
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<210> 24418  
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 <212> DNA  
 <213> Glycine max

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aagggtttgt atgataatca gagatacaga gagtaagaga tactatgtaa agatttcccc 240
cagctagatg cttgtgaaat attgacagca tattctatca ttgtcattct tgcattcctt 300
aatcaaactc caaccagtta cctagaatct cttccaatt aatcaccctt gattatggtg 360
taaaaa 366
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<210> 24419  
 <211> 383  
 <212> DNA  
 <213> Glycine max

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tatatacatc attgtgcttc ttgatgagag ttatcaagac agatttgaat cttctaaagc 180  
gagtaaaagt aaattaagta atactagcga taagaaaatt gactattaat attctaacac 240  
attcatgatt tgttatatac agaaatatta ataacacacc ttcaaacaca ctcttttgaa 300  
cattccgtcc actattgatt gaaatttaat gaaaattaca aaattttgtg gatcctacta 360  
ttatttaatg agttccactc aag 383

<210> 24420  
<211> 383  
<212> DNA  
<213> Glycine max

<400> 24420  
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tgtcattggt tctgcatcat ttttagctct ggtgccacaa ataatcatct atttctacaa 240  
tgatattttt ttaacatgag ttttattata aagggaatta ttattctatt cttttttcca 300  
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<210> 24421  
<211> 287  
<212> DNA  
<213> Glycine max

<400> 24421  
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tgagttacaa cgactgacag aggacaacaa cactctaaga atgatgcttc aagttctaag 180  
cagcaagttc acaaagcttg agaccatct tctagacatt aacatgacac aacacaaggg 240  
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<210> 24422  
<211> 355

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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 tggtagtatt tgaagtgagt atctgggtct cttaaagttc tcttctttat ccctcttgat 240  
 gggtttcttc tcctatctat agaggcttgg aaacattttt cttatcacia ttataatcat 300  
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 <212> DNA  
 <213> Glycine max  
  
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<210> 24424  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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gtgatgtacc taaacaggcg agctcctggc agtcaacaga taaaaggaac aaagaccaca 240  
aagcaaggag gcttgtgtgg tggctggcca gctgtgaatc ttgtgtgata tatgggttat 300  
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<210> 24425  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 24425

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taaatacacc cctcttgccc ttttttgggtg attatttttt cgtaaagtta cgaaaactta 180  
cagatttcgc aacgatactt gttttctttc cgtaacgtta cggaaccttg cggattacat 240  
aatcatcccc ttttttgact tacggaatgt tacggaacct cactaattgt acaacgatgc 300  
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<210> 24426  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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ttgaccacag agtgggtacct ggagatatgt cgcggggggtc aggagacctt gnggacatca 300  
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<210> 24427  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<400> 24427

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 atgtggactt tgctgaaaat tttgctgcat gtgaaaagtt ttctgaaaat gggtactata 240  
 ggcataatgg attcttgttt aaagcaaata aattatgtgt gcctaagtgt tccattagag 300  
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 <212> DNA  
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<400> 24428

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 cttccgtgtg attagttatg accatttgaa tttctcgaga gcttacgttg ttcaatatcg 180  
 agcgtctcgg tatataatgc gcctgaatct gacttccgtg tgacaagtta tgaccatttg 240  
 aatttctcca gagcgtccgt ttgttcatat ctagcttttc tatttattat gcgcctggat 300  
 tagactttcg tgtgatatgc tatgaccat 329

<210> 24429  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 24429

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<210> 24430  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 aactgggtcat gcatgcacc atgtggacac tcaagcataa agtttttatg gtcattgtgac 180  
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 attcaccctt tacgtgtata cacattcttt ttttcaaaca aactgggttat gatagtgaaa 360  
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 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 24431

agctttttgtg ttctgagaat agttacgtca caactcgagt gatgggggaca tttggggttag 60  
 tatgattaag ctaagcattc tcttatctct cttaccaaata tataattagt tcaagttcct 120  
 gtatgattgc aatgtgtaag tggtccttaa tgtttaaagg tcaaaagata ttgattctct 180  
 ccttttttct ttttctgtag ttatgttgca ccagaatatg catgcactgg aatgctgact 240  
 gagaagagtg atatttatag ctttgggata cttatcatgg agataatcac cggaagaagt 300  
 cctgttgatt atagtagacc gcaaggagag gtttagaggcc ctcaccaata aaagaccata 360  
 gttaacattt a 371

<210> 24432  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24432

tgggagatcc acatcataaa agctacagtc atagggggaa aaccaagaaa aaccacttta 60  
 gtactccaag catcccatat tacttgatgt gggattacgg ccccccata atacccaagt 120  
 ccttcattct aaagtcattc tatctacaaa gaggtatgaa tatacttaca aggtctacat 180  
 ctgagttcaa tgctatagac agtgcagaaa accatggcgg caagtcaact ggagcaatag 240  
 aaaacatcga gacaagtaag accatccata tgtcatcaat tccttatata tctgaaaatg 300  
 agttgttttt aatctttact ggtttgtaaa aaataacaga attcanaacc atataactaa 360  
 ttgaatcacc aaaac 375

<210> 24433  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 24433

tttgcagttg gagcctaact gtagaaggga ggactgcacc atgcaaacta catttcgaaa 60  
 ccaacatagt ttaagggtatt aagatactat ggaatttgca ctggaagaca tggatcaact 120  
 ttgctactga aaccacattt acacttgaca tataaattat catcttttgt gctgtttttg 180  
 gaaagaagaa aagaaaaggg ccatcaagta agagcagaaa tatgcataca taattaaaaa 240  
 aaaaatacag ttcccaaaag ataccagtta acaactttgc tcaaacttgg aaaaatagaa 300  
 ggcataaatg tgagactcgt cagcaattat taataatcta taatatatca tctgaaatga 360  
 ttttatctgc actatctc 378

<210> 24434  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 24434

ttatgactta atcattgtac agatatgtaa ccaatttttc ttttcaaacc cttttataaa 60  
 tcacttttct tatttgtaat aaaatagaaa tgtcacggga tgtaacccat gcttgatgaa 120  
 tgttacacca acaaagtta gaagagaaga aaattatgta ggtccttaaa ccttaaaaat 180  
 caagaaataa aaaaatacca cgccaaccaa gagaatataa atcatatttg cattgtacca 240  
 agcttgaaaa tgttcaatca tgtttataga catcaccata tgtagaattt tattatttgt 300  
 aattgcaagt ctgggaccat ctacaaataa actaattatc cataatttct aattaaatta 360  
 atgaaatgt 369

<210> 24435  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 24435  
 agcttgtaag tatttggttg tataatttgc ctgttccatt aggcttttaa tgtctctaga 60  
 ggttacttcc tcgttgacat cttttgtctt gaatggaatt gccatgacag gtttgttggt 120  
 actgtctttg atatttggtta gttgatattg tgttggtgga ggtaattccg actggattaa 180  
 ctcaccatcc ttcacttgcc aatttggtat gacatttgtt gttggattac ctatgatgtc 240  
 ttgtttccaa gggtagtcta tctcctttct gatggcataa gcatgaaacc aatctaagaa 300  
 aaggacatta attctgactc tttcgacaaa ttcgtagaac ttgtcttgga tttgttctct 360  
 gtttgtaacc 370

<210> 24436  
 <211> 550  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24436

ccccgcgccg atgcttctaa cacttatata antantattg tagtaactac aacactatac 60  
 atctctacgt acaccatnct tcggaacncc cccccccnc cccctttgan acccgttgga 120  
 ttacettgct antcgcgacc natgaaaaca gaactttagg acacaccttt caactgaagt 180  
 atgtcctaag tctatttcaa ggacgaaact tcgccgagtg tcgcgcaatg aagagacctt 240  
 ttattcaaac ctttcacaat tagtgattag gctacacat aaattatgga acttacaaaa 300

actaaatcct taattgaagg cgtgcgcgac aatcataccg aattactaaa caagattacg 360  
 agttggctta aagacattcc ttatactcct caacctacag aaaatacttg caaaatggta 420  
 accggaagaa cccacaaatt tatcaatggt attagtgaag atagtgaacca aaacctatat 480  
 aacacaactg agatatgacc agcgtcataa gacaatataa tccattaaac tccaaacact 540  
 ggaaaacccg 550

<210> 24437  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 24437

agtttgggtca aaggtaagggt tagcttagaa aaacctcta tgaacctacg acagtaacct 60  
 gctaaaccaa ggaaactcct aatctcaaac actaacttat gactctccca actcatcacc 120  
 acctctacct tggaaggatc tactgctatc cctcccctag atataacatg ccctatgaag 180  
 ctcaccttct ctagccaaaa ctcatactcg tacaacttag catgtagtct gttgtgcttg 240  
 aggggttgca acacaacct cagacgctcc tcatgttctt cccttgtctt ggaatacacc 300  
 aagatatcat ctatgaagac cactacaaaa ctatctagat agggatgaaa gatcctattc 360  
 atgtagtc 368

<210> 24438  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 24438

tataagttcc tcacaagcct tatcatatcat attcttctct atcccaaat attagtagtc 60  
 ctaagttggt ttacacatac caagaaaaaa taataactag atgaaagaga atagtagttt 120  
 tataaaatta accttatgtc atcattaatt catcttataaa ttttgttttt tttaccatta 180  
 atattataag ggatataagt gaaaaaaaca taattagtga tacactaaaa agctaaaata 240  
 acaattatta tgggacaatt tttttctct tatatgacaa ttataatggg acaaaggag 300  
 tattaatttt cttgggttat ggtaaaaaac ctacgatgac catcatggct atgtttggct 360  
 aaactagctc aaaggtg 377

<210> 24439  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 24439

agcttctcca aggtggtctg tggcatcacg tttaaacttg aaccattgtc gataagtacc 60  
 tttgtgacga catggcgcat acatcttaca aacacatgta gagccttggt ggccttctc 120  
 ccctcaacgg gaatctcttc ttccgcaaac gcgatataga tattggtggg catatgatta 180  
 acaatgcctt taaaaccctc aactgagatg tacggtgcta ctggggcttc gttgaagact 240  
 attatcatca gtgcacgagg aggcctgaag tttatgatca gttcgagcag agagactctt 300  
 gacggaggtt tattcaattg ctgagctact ttaaactcgc tttgttggtat gagacgatag 360  
 aactca 366

<210> 24440  
 <211> 536  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24440

gcgcccgcag tctgccatgc tcaaatatat ggtttataag taatctgaga tatctatatt 60  
 cactcgatat actcgacacc ncaagcacac cncgcacacc tgtgagccct tttgtgatcg 120  
 attacctcta ctangnacgc gacacnnaaa aaataactcaa gcggttgtga caagacacaa 180  
 aaactcaaat catattttat atgctgatgg gcccatatat atggggggccc gacttacaaa 240  
 aaaaagagat gggctataga gaaccccatc gcaaacgctc tctaaccaat ataggccaca 300  
 cacttgccaa ccaatggaga aaacttctac gaggttcaat ttgcataatc tactctacag 360  
 gcgagaaatc tttctgtgta tcttataaacc ttagttgcaa tcaagagact ggctatctct 420  
 tggattggga gaaatgtaac cacagactgg ttgtctcttg gagaaacttg aacaccaggc 480  
 agaggaatcc aagagcgtca caagcctgta cggacttata gagataggga aaaacg 536

<210> 24441  
 <211> 368  
 <212> DNA

<213> Glycine max

<400> 24441

agctttaagc gtctttttgc taacgaagac gacgcaaaag acctaacatg gcatgcaaatt 60  
ggaaggattt ctgatggaat cgtctgtcat ccggctgatt gctcccagtg gaagaagatt 120  
gatggtttgt atccggattt cgggaatgag ccaagaaatc ttagacttgg actagccagt 180  
gatggaatga atccatatgg aaccttaagc actcaacaca attcatgggc agttctgcta 240  
gtaatttaca atttgcttcc ttggttggtc atgaaacgaa aatacatgat gttgtctatg 300  
atgatatcgg gtccaagaca gccaggaaat gacattgatg tttatctaag ttcggttgatt 360  
gaagacct 368

<210> 24442

<211> 352

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24442

tggagtcatt tgttgtgttt tgttttagtgg gatggagctg gacaggagcg attcatgact 60  
ataacaagca gttattatag aggagaggat gccgaagata ccagtagatc atcagagaaa 120  
aattcaattg aagaagacat tgaaacttaa attgctgaag tgcaaacgta agtttattat 180  
gcatataatt tcagtaccat ttttgttata tgattttggt tcttggggtat ggcagatttt 240  
ctagcaaaaa atggggaaga agagaaaaca cagtgaagata actcatgacg aggcacagcc 300  
ncaaaaggaa caactcatga tgatgcacaa cccacaaata aatttctttg ac 352

<210> 24443

<211> 285

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24443

agcttatgca tggaaaatgt aattatgaaa ttgagatgcc cgaagaaaca ccatttccta 60  
gttaaccatg cattaggtac catgttcaat tattttgttt ttaagtgaac cggttttatg 120  
atcccaacat gggttggtcg tgggtgcctaa cacatgaaac taagaatgta gtgtgaagtt 180

tcatgcttcc ccctttttgt ttttgttttg tagaggaaaa cacaaggatg agcatacatg 240  
 aaaacaaatg gtatgcaant ttgcagatca aaaagtttgt tgaac 285

<210> 24444  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 24444

tgaccaatcc cgacccaacc cgggcatagt cggctcttga gtacctgtga tgtacctaaa 60  
 caggcgagct cctggcagtc aacagataaa aggaacaaag accacaaagc aaggaggctt 120  
 gtgggtggctg gccagctgtg aattttgtgt gatatgtgga ttatggcccc tggtaatcga 180  
 ttaccaaggg taggtaatcg attaccaagg gtaggtaatc gattacaagg cttaaaagtg 240  
 aagacaagag gctaagatgg tctctggtaa tcgattacca acgggtgtaa tcgattacca 300  
 ggcttgaaaa cgaagtcagg aaactaatgg agcctctggt aatcgattac cagcttgtgt 360  
 aatcgattac acagagggat ggggtcactgg taatcgatta ccaagtaggt gtaatctgat 420  
 acacagtgc tttttga 437

<210> 24445  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 24445

ggcttgtatt gttgagtctc gaagacggat aatcgattac aatagtgcc taatcaatta 60  
 cactgttgtt tgagacaatg actgaattat tcaagagtct ctaccttaat cgattaccaa 120  
 gtggattaat cgattacttc tttctcgttt agttgatcag aggtgaacaa gaatacttta 180  
 atcgattact gtggcgtccc taaattaatg actggtttaa tagaaataat ttaaataaca 240  
 aaaaccatgg caaatTTTTT tttcttcttt ttctttctca tttcttctc ttttcaccat 300  
 aactagggct agaaggaaga tctcactat aaagtctga atggccaatt cacaactcta 360  
 ttcggagtca 370

<210> 24446  
 <211> 310  
 <212> DNA

<213> Glycine max

<400> 24446

gcctacgttc tgttgctcag cagccactt tacatgatgc actctctgtg ctaaactcca 60  
tgtacaaagc ctgaaccaca cagggacggc cctggccttg tgtccacgaa tgctctacaa 120  
caagagaccc gcggtctctt aatcgcttct tagagcttac aaggatagac gaagagatct 180  
ctctttaacg agatagatcg tacagtgaag atcaatccaa atgccttata gaatatgcaa 240  
gtgagggacc aatgaatctt tctgagagga taagacgagt cagtgcataa aaactctgat 300  
tcttttgaga 310

<210> 24447

<211> 218

<212> DNA

<213> Glycine max

<400> 24447

cgctgcatgc acccgtggga tcgcaatctc atacactgaa aacgatcagc atacctagaa 60  
cttgcgaaaa atatgcgcaa cggacacata ctacctatgt cggactggag tggctatcaa 120  
aggcctatat gtatgagacg agagacacga atgtgctcta agttcttcgg aacacatagg 180  
acatagactc ttaaatagca ttatggcaat atcctctg 218

<210> 24448

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24448

agtaggatta tggcgtaccc atcacatgag gtgctatgtg gtggatcatgc gatggtgcac 60  
aacacgttct ccacatacac aatgcccga taaaccacc atcccctgat gccacctcc 120  
aactgagctc acgtacttac acgtagccca tatgatcgtt tctctcaaca ccgggacccc 180  
atcaatcctc ccaagcttcc acaacatcca agcgaaacaa cattcaaaca gctcaagcta 240  
tcgcgcccaa gcaaaacaga gcatatgcag aaaactctgc caaaacacca accaaatcac 300  
aacttttctc acttaaagac cccaataaca attccttcga tccaattcgt taaccgttgg 360  
atcgactcca aaattntact ggaagtctat agtacatgaa cctacattgt gaccgctggg 420



atctactatc aaacat

436

<210> 24449  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 24449

agcttatggt cttatttcct tacaaacggt ctcttgacac agacatttaa ccgaaaaaca 60  
tgcgcccatt tacaatcaag gcagcttcgt tacctagatt atttacacgt acctccaagg 120  
tgtatttggt acttacatca cacacatctc cttggctaaa ctcacatata tgcatactca 180  
agcattttgg ggcacaaaaa attgcacatg tgcacatctt ggcatttcta atacctacat 240  
acgcaaactt catgatgaat cttgactatc tacacaataa ggtgctacat atttaagcat 300  
atctttcttt gctgactaaa attgcattca aattttaaag gtatattttt ttgcaatatg 360  
ttttcttcat g 371

<210> 24450  
<211> 431  
<212> DNA  
<213> Glycine max

<400> 24450

tgctctaaat ttacattgat gtttgtatct atgggatgag gttatatgcc atttttgctt 60  
taagagtagt gtcccactgg taaaattaac ttcccaaag tttgccttct caggaatggc 120  
cccagggaag cttgcctcaa agagggtccag gaaggacaag gcggccgaag gaactagtct 180  
cgctccggag tacgacagtc accgctttag gagcgctgta caccagcagc gcttcgaagc 240  
catcaaggga tggctgtttc tccgggagcg acgcgtccag ctcatggacg acgagtatac 300  
tgattttcaa gaagaaatat ggcgcgggag gtggggacca ctggttactc ctatggccaa 360  
gtttgatccg gaaatagtcc ctgaggttta tgccaatgct tggccaacag aggagggcgt 420  
gcatgacatg a 431

<210> 24451  
<211> 283  
<212> DNA  
<213> Glycine max

<400> 24451  
aaattacctg aaacatcagc taagacatca tcaactttttg gcctgagctt tcgatgggtgt 60  
cgggacgcaa agataacggc gatacactca ttggc aaatg caccacgact tgcatagcc 120  
acattacctt tcattttgtga ggggagggct aactctgccg gatgatgtac actgtcaatg 180  
gctagctaga tgagaactcg tttcctcag aggattacta gctcctattc ttttggccac 240  
ataagacatt ctgtagtacc taccaaata gagctactcc ctc 283

<210> 24452  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24452

taagccaaaa ctaatagtgc ctgccaaagta tctgagtaat cctttntatt gctgccaat 60  
gctgttcagt gggatctgac ataaattgac agaccttggt ggccaagaaa ctaatttcag 120  
ttctgggtgat gggtgcatac tgcaaagcac ccacaacaga tctgtataga gtgggatcag 180  
aaaaagactc ataccctgat ttggttaact tgcagccacc aaccattgga gaggagatgg 240  
aattagcttc atccatcttg gttttagtca acagatctct tgtatacttg gactgagtta 300  
gaataagagc acattaggct gaggtctgac ttcaataccc agaaaataat ccagattacc 360  
taaatecttt atagaaaact cagaattaag tntagtaacc aggatttaat gaaattagga 420  
ttgttgctg tgacag 436

<210> 24453  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24453

tggtgcgnt ttgtgctga cttcaggcca tcagctctga cccgggatcc ttaaagttac 60  
acgcagctgg accttctggt tggaatggct taagatatgc cttgcgctgg caacatcggt 120  
ttctaccttt atgtgtgaca agatgaacgt acttatttta tgactcttga tgattggact 180  
cttgactga atccataaaa tactcgcatc cctagaacta gaacatgagg ggtcttcaga 240



[illegible]

actacaaaaa tctgtcgatc aatattactg acgaccatth ttctaacgga tttgtgtcca 180  
 ttggaaatct atcggaaca tccaattatc gactgatttt tagtggtacc gacagattat 240  
 tgccgtcgca aaaatgcttt tttctgaccg ttacgctcat gcattttaat gaatttttgg 300  
 gtccaaaaag cccttatatt catcatgaaa acactttgat tctctaattt ccacaaattc 360  
 aataacatca agaacacc 378

<210> 24459  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<400> 24459  
 gacttcgagc tccgtgcccg tggatactct accggcgagc tgcgcgcctt ctagtthtga 60  
 cttactccac atttcatgca taagatactg gtgcatattc taatttgacg atcactatct 120  
 ccactatcca tctcgtacg accacccatc tatcacttgt gcatttgata ctcatctgtc 180  
 tatactacca agaaaaccga tgtaactagt acttattgaa tatgtttgcc acatatacga 240  
 acgaacacgc tctgcgtgca ttttttagtga tacgatgtca tgt 283

<210> 24460  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<400> 24460  
 tccatggatc caattataag caagtttggt gttattctga acaaattgaa ccagagaaat 60  
 atctgcatgg ctggtagaac cactcttatt aatgttgtht taacaacatt acctctgttt 120  
 tatatgtctt ttttcaaggt cccctcagct ttcattaata ggatctctgc catccaaaag 180  
 caattccttt gtgagctcta atattgagac tagtggtggac agtaagcata aaattgttga 240  
 ctgtgtatag agagctaagc tcaagactgg tgthtagcttt tttccttgta cgacgtatga 300  
 gtcctcata gcggaataac actcgatttc tagaattgtt tcttgggttc ctatcaaagc 360  
 ttaaattgaa cagtttataa tatttactta tgtacgagtt atgtgctctc 410

<210> 24461  
 <211> 207  
 <212> DNA

<213> Glycine max

<400> 24461

gaccaaccct gcattaatcg tatgggttgct ccttggcccc ttccaattat taaacactga 60  
gttgacataa gtggacaggt catttgcgac catgcaccta ttggaccatt cataacgata 120  
ttaaccttaa cggaagaca gctacacctt caataattgc cattcttgcg gccgcaataa 180  
cctatgcgtg agtagcaacc acttgag 207

<210> 24462

<211> 367

<212> DNA

<213> Glycine max

<400> 24462

gtggcgttat tcttaggtgg aagatcaagc ttgtattagt gccacaaacc gcgactgttt 60  
tcacagtgc caagacctta caacaaggat ggagcacgct tcttcataga tggcagcaag 120  
tggctccaca tattgatgag aatctcttca ttagagttat cattcaacca ggggaatggca 180  
ctgttctctgg caagagaaca gtaacaactt cttacaatgc tctctttctt ggtggtgcta 240  
atacgcttct ccaagtgatg aaccatgggt ttcttgagtt aagggttgaca agaaaggatt 300  
gagtggagac tactgggatc gaatctgtgc tatatattgc tggctaccct gatggaacag 360  
gcccaga 367

<210> 24463

<211> 361

<212> DNA

<213> Glycine max

<400> 24463

agcttgcttc tatagccaaa cgttcatatt cgattgaaga ataaagaaga gtcaaatac 60  
atctaaacag cgttttgttg tttcatattg ctgaaattga taagaaagac aaagggtgca 120  
gatctcaatg ggaaatgaat caatcagcca taagacaaca atataggaca actatcttat 180  
tttaattaat ttatttcata aatttgctta tttttacact tctagcgtct attcaagcat 240  
aagacagtaa attggccata ataggcatgg ctctaataa taaaaataa aacattgaaa 300  
ttttgacagt aaaattgtca tatgacagta aattgcccata aataggaaag gcactaatat 360

<210> 24464  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24464

tagtgtagtt cttgaaagag tgcaccacgc acttgctcct caatgggtgtg cgcgctctgc 60  
 acatcgtagt ggtcggagag gaacagttct ttgcaccat ggaactgtct ccgaccacca 120  
 atcgactctt ccggcctgta gtaccacctc acacgcacct tcacgttggt cctattatcc 180  
 tgctcgatca tctccacgcy cgccacgtaa gggggcttcg acgtgtccga gggccgcac 240  
 agaacacagt ctccagctgc aaaacccaaa cattttctta aacgatagct ctcgctcttc 300  
 aaaacgacat cagcatcatc atcatcatcg tgggcagcca caaaaacagg gaaagggacc 360  
 gtcttttaac gagacaacgc anaagggttg gcgtgtgtta cctcggacga tcttggttgg 420  
 tcctcttatg 430

<210> 24465  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24465

atcgcccttg gtcnatgata cttgcntnccg aaacnccctg gcnncnaact gggcgnatac 60  
 tatggtggaa gatttaactt ggnatcgtgc ccgaaaccca gacagttttc gcagtgatca 120  
 agaccccaca acaaggatgg agcaacgcta cttcatctat ggcagccaga ggctccacat 180  
 atcgacgaga atctctccat tagagttatc actccaccag ggaatgcgca ctcgctcctg 240  
 gcctagagat cagaagtcga cgttcttacc aaagctctcc ttcttggtag ggctcaatac 300  
 gctactccaa gtgattaccc catgggtctgc ctgaattaag tatgacaata cagcattgtc 360  
 tgtgaaccac ttggatctaa tttgtgctgt ataatgctga gcacccatgg ggaaccngcc 420  
 cgaaattttt ctcccatgga atatcacatc caaggcttat ttcaatgcca aacagatttt 480  
 gccagcc 487

<210> 24466  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
  
 <400> 24466  
  
 agcttgectc ccagctcgcc caggcgagcc aggttgcttc ctccagaagc aaccgccttc 60  
 tggaggaaga atctagaagg cccaagtggg tctggttgct atttgacact tttttttttt 120  
 actaaataca ccccttttgc ttttttgggtg attctttttc tataacgtta caaagcttta 180  
 cgaatttcgt aacgataactt gttatctttc cgtaagggtta cagaacctta cgaaacatgt 240  
 aattactccc ttttttagct gtcgaaatgt tacggaaact cacgaattgc gtaacaatac 300  
 ttccctttga tttccagcat gttacggaat ttcacagatt gcgtaacaat gttttctttt 360  
 gatttcgggc atgt 374

<210> 24467  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 24467  
  
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 gtcaacataa aaataacaat gagtaacgtt gaccaaaaac ctagectatt tgaacaaaaa 120  
 aatatccata aaatggcttt ggcaaaaacc ctagcttgat gtcgaccaa aaacctagca 180  
 tatgtcagcc aaaaaaaggc cttggcatcg accaaaaata gtcttgacca ttgtcaacca 240  
 aaaaacatca tcaactgata agttctatcc tattttattg tgcctttttt tactcttaat 300  
 gtcttttgtg gccagtccaa ccatttgaat gatgtgagaa tagactgtga tgggaaagtc 360  
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<210> 24468  
 <211> 369  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 24468



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taggaaaaac gtcatttctt cttctttatt tcttccaaag acatttctaa agtttcaagc 120  
actttctcca tcaccacaaa ccaccattag ccaccacaaa ccatcattgt tctccattga 180  
aaacccacac cgagaggaac ccttcaaccg aagcggaatc ttccaactcg gcttgcggtt 240  
ttggcagaga acgaaaatcc taatctgaac tttcgtcttg tttcgaggta accatggatc 300  
tatgcttatt tcttgtagt tacatcttgt ctttgcattt tttctgactn tggaaccacc 360  
attgcatgt 369

<210> 24469  
<211> 436  
<212> DNA  
<213> Glycine max

<400> 24469  
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tgagaacttt ctaacaaaat atttcccaga gtctaaaact gcaaaggga aacttgcaat 180  
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ctgtagtcaa agcagttact cgacgcttct ataggaggaa aaattaagtt gaagacacct 360  
gaagaagcca tggacttaat tgaaaatatg gctgtcagtg accatgcaat tctgcatgat 420  
atagttcata ttctta 436

<210> 24470  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 24470  
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agtgatcaag aacactttaa ttgattacat tgaggatcta atcaattaca ttgttcttga 180  
aagttttcca gtttttatga agaacacttt aattgattga aatgataata taatcgatta 240

cttctttaaa ataattgatt acattgtata ttcaatcgat tacatgtggt tataactatt 300  
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 ttatagtg 368

<210> 24471  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <400> 24471

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 tcgggtgcag aacagttgga gagtctgcat tgactacagg aggctgaacc aggttaccaa 180  
 aaaggacat tttccctgc cattcattga tcagatgctt gaacgcctgg caggtaaate 240  
 tcactactgt ttccttgatg gtttttctgg ttatatgcaa attactattg ctctgagga 300  
 tcaggaaaag accacattca cctgccccct tggcactttt gcttatagga ggatgccttt 360  
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<210> 24472  
 <211> 362  
 <212> DNA  
 <213> Glycine max  
 <400> 24472

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 ctggagagag cccataaccag cgttctctcc ggacctgtac tactaacact gagccagcat 180  
 catgaagagc cactgcctac tggagtagat gcacactgct tcttcggaac tcgagacatt 240  
 gtctctaca gcactacctg tgatagacat ccctgatgac ttaactgatg aagccggtgc 300  
 tccttttgat acaccatctt gcaacataga cgatgggtgt gactattttg actagataga 360  
 ct 362

<210> 24473  
 <211> 435  
 <212> DNA

<213> Glycine max  
 <400> 24473

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 gaggtcacca ttttcatctt cttccaagct ccatctgtga gacttcttct ctcaaagcct 180  
 tggttaagaag cccttaaacc tctattttct tcttatttat ttttcatttt tgtgcaaaat 240  
 tcttacttga ggttccaaaa tttctttttc atcctttcga agcttaagag ttcaagatct 300  
 aagttttttt tccttgacca tttcgtggaa gcttcactta aggtaagggg agtctttcca 360  
 cttcttaaac cctaaccctg ttgtctttgg aagctagggt tcattacatg ttgttttgat 420  
 gtttaaaatt tcatg 435

<210> 24474  
 <211> 352  
 <212> DNA  
 <213> Glycine max  
 <400> 24474

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 taattatgac ctttcaagca atagatacaa tccaagttgg aggaatcatc caaatctgag 120  
 atggacaagt cctccacaac aacaagagcc tgtcctctct tttcagaatg ctactagtcc 180  
 aaccaagcca tatgttctc ctccaatata gcaacagcaa caacaacagt cacaacaaag 240  
 acaacaagca actgaggctc ctctcaacc ttccttacia gagttagtga ggaaaacgac 300  
 aatccagaat atgcaatttc agcaagagac aagagcctcc attcagagtc tg 352

<210> 24475  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <400> 24475

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 aaggtctgag agaccataca agtttcctaa cgatttctaa ttatgtgggc cattaagtct 120  
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gccatcgct tggccttggc taacaatcgg ggaagttctt gactcccggt caaggtaaga 240  
gcaaaccgat ccatccacat ggttgctctt tgggtgtaaag agtcgatcac ctttctcta 300  
gcctctgttt ccgcatatac ttgggcatac tcatccgcga ttctatgctc gggggccgtg 360  
gctagaccca actcttcttg gtacttggcg atgatagcta acatgttggg ttctgtctcg 420  
catagat 427

<210> 24476  
<211> 294  
<212> DNA  
<213> Glycine max

<400> 24476

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gaatgtatgg atacatgatt ttgatgatgt cgaagaataa gccacaagg ctgcttcaaa 120  
tgataagcat ttgcttgaag aataattcat gattgcttca acaaacaag ctttgtttca 180  
tgattcacta tacaccaatc ctttgtttat aacaacatgc tttcaagaca tgcgaggctc 240  
tggtaatcga ttaccatgaa gtgtgatcga ttactcgcag acaggggttga gaaa 294

<210> 24477  
<211> 432  
<212> DNA  
<213> Glycine max

<400> 24477

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tatgtataca tgatthttgat gatttcaaag aacaatctaa caaggctgct tcaaatgata 120  
aacatttgct tcaagaataa ttcaagattg cttcaacaaa caaagccttg tttcaagatt 180  
cactaaagac caagccttgc cttaaaacaa agtgctttca agacatgcaa cgctctggta 240  
atcgattacc aggaagtgt atcgataacc agaagacagg attgagaaat agctgttgaa 300  
aaaggtgaat ttaaatthtc aacatgtaat cgattgccat atgtgtgtaa tcgattacca 360  
gcaacagaac tttggaaatt caaatcaca agtcataacc cttcaaacta taactgtgta 420  
atcgattaca ca 432

<210> 24478

<211> 358  
 <212> DNA  
 <213> Glycine max

<400> 24478

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 gaccattggt aataactcaa ttttgatagc tatagattta cacattgctt ttcagcagca 120  
 agtctgctct ttttggattg gctgtcatca actaattagc tttggtagcg gtcagatctg 180  
 atgcattctt catttgatag atcatagtgc caagacaagg ggcaatgagc tggaaataca 240  
 tctataccta tgaacaaaag tgaacccgga catgaaaggc agagccagac tacatgtgaa 300  
 gccaggcaa taggatcttg atcttctatg cctatctctt tgttgggttaa acttcatt 358

<210> 24479  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 24479

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 tgggttttctg tttctacatt atatttttaa taataattat aaatggtgcc tcttttcact 120  
 tttgtttctt gttttcacct agtactaaaa tgttgttttc accatttcta gtacaaattt 180  
 tcaaacacca gaaacaaact gaaaccaaag ttgtggtttg taattagtta aaagaaaaga 240  
 tagaatagag gtagaaaaca tttccttaaa ccaaacaggc ccataagttg tcggtctttg 300  
 gacataattg gtggtacttc ccatctctaa acttcataag cctggatgtg cattgggtcaa 360  
 ctatagttaa atgatgaaag aaaaaacaaa ttctgagctt gtgattgctt gcacctttgt 420  
 gaaca 425

<210> 24480  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<400> 24480

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 caaatgctc tggagctcta ctggacgact atttaaccaa agctggtatg ggaatgttgc 120

gagaaccctt caacagctta ctgatacgat ctgagaagtg tgcattggcac gtgggcatat 180  
 cgacgtgctt atgtataaca gcccatcgag catgtttcct tagaaactcg atcactccat 240  
 gtggataagg gtggacacag tgcactaaat ccttctcaag tgtgatcaac tatgtgcttg 300  
 ctaggagtgc acgctgcgta ctatttttta 330

<210> 24481  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 24481

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 tgtctaccgc tattatgctt agaataagccc tgatgggtgt catctttaca actggagaga 180  
 agatttctgc gatgtcaatt acttgtttct ggtgagaccc tttgaccaca agattcgact 240  
 tgtgtcttct tgtaccgtca gatgggtact tttagcctata taccaccta gttggtcattg 300  
 ccttctttcc ttctggctat ttatttaaag accacgcttt attgttgatg acggatggga 360  
 tgtcatctgt catcgctagc ttccactcga gaatgacatt ccctg 406

<210> 24482  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 24482

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 aagcatctaa cagtgtcttg gtttgtggc tcagcctatc tataaacata ttcaattgga 180  
 ttggctcgga aaacccatga gtgggagttt ttcttaacaa gcctctgaat ctctccaatg 240  
 cttcactcag agattcatta cgaaactgat gaaatgaaga gattgcagct ttcccttcta 300  
 cagtcttgga ctctgggaag tatttcttta ggaacttttc aacaacttct 350

<210> 24483  
 <211> 433  
 <212> DNA

<213> Glycine max

<400> 24483

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atccaccgca accccgtctt tagaaatcac gtgccctaag aactgcactt tctccaacca 120  
aaagtcacat ttcgacagtt tggcgaacaa cttcctatcc ctcagaatat gcaacacaat 180  
cctcaagtgc ttctcatgct cctccttatt ccttgaatac actaggatat catcaataaa 240  
cacaaccaca aatgggtcca aataatcatg gaatatacgg ttcatatagt ccatgaaaat 300  
agccggagca ttagtcactc caaatggcat gactaaatac tcgtagtgcc cataccgagt 360  
ccgaaacgca gtctttggga tatcttcctt cttaactcgg atatgatgat acccagatcg 420  
cagatcgatt gtg 433

<210> 24484

<211> 346

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24484

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aatcaccatt gaaggacctc attgaagctc aaagatccag cctccataga agctccacaa 180  
gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttaaacc 240  
tccattaatt ctttttcttt accttctctt ccattggtgn ttcttcattt ttctccatgt 300  
atctctcac atgtcttggt atacatgttg ttaacatgat tcttta 346

<210> 24485

<211> 418

<212> DNA

<213> Glycine max

<400> 24485

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ggttgcggta ccggctccgc ttccctaacc gtactggagg cggttgccgt ggctttatcc 120  
tctatggttt tctggagttt taacatgacc tccgagatgg aagccatttg atcttttaag 180

gccgatagat cggccttcat ctgttcctgc acaccctctt cattatccat tttcctggat 240  
 cgagtgttat aggggtgcct tgggtgttttc ttagttatga tgaaattcct aaagaaataa 300  
 acaacggtga gtatgccacc aaaacatgag tatgcaaag gatgatcgga gcacttggat 360  
 ccaccccaag ggtttttagat aacgtgatga gtccagaact tctcatttat aaaaagac 418

<210> 24486  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 24486  
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 cgctaagcca attaagtccc aatgggtcaag ttaggctaag cgcctactgg cactaagctt 180  
 gtttagtggtg tcgcgctaag cgagcctgtc tcgctaagcg caattagctc tctgttggag 240  
 aataaggctt agcgagccat gtcgcttag ccattgtgtt gtgtagcta ggggtgtctcg 300  
 cttagccaga gtctttattt tttagtagtt gtgctaagcg cgccttgctg gctaagcgtg 360  
 t 361

<210> 24487  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24487  
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 tcacgctggc attgagaatc cagcttatga aacttgggag caacaggatc aagtgtcctt 180  
 cacatggctt caatcgactc tctctacgtt gattttatca cgagttctag gatgcaccca 240  
 ctctatgag gtttgggaat gcattcacga ttatttcac aagcaaaca tagccacagc 300  
 tagtcaactt cgcactcaac tntgtgctat gacacttgca ggcaactcaa tacgtgaatt 360  
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<400> 24488

<400> 24489

<400> 24490

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aatcgattac acacttttga gaatattgta tcacaagttg cgactcttga gatttgaaat 180  
tcaacgctaa tatacattgg taatcgatta cattaccatg gtcacgatt actactttgt 240  
aaaacaatta taaaactgtt tgcgactttg gtaatcgatt actgtcttat ggtaatcgac 300  
taccatagaa taaaaactct ggtaaaagat ttttcttga agaattcttt tggacaaata 360  
gtgctattca atctt 375

<210> 24491  
<211> 433  
<212> DNA  
<213> Glycine max

<400> 24491

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tttctctttt gagcttagag attcagacat ctttcttct cctttaagag cttctgcaca 120  
gccatgttga atcaagattg cttccatctt gattctccat aaccogaagt cattttcccc 180  
tgaaaacttc tctatatcgt actttgttgt tcccatcttt cttgatcttg atcctgtccc 240  
acagacggcg ccacttggtg gttctagtta taaattctgc tactcttaat ctgcataaga 300  
tcaaaaaaca agaaaaacac agaaaacaga gcaaagcaat acacagcaga gcaagaaccc 360  
aaagatttac gtggttcgac aatgtgccta catccacggg aaaacgtagt tcatcattat 420  
cgcattgatc atg 433

<210> 24492  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 24492

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aaagacaaag cataacctct ttctcaactt tttgtttctt caatagaaat tcgaccaatg 180  
attcctctgc aagtggaaac ttttcttctt ttttgaactc ttccaaggct tggttgacct 240  
cctctctaga taaaggagca ctacttttg gtgttcatat cgaagctccc atcatcatga 300  
tttgcattggg tttgatatag atagcctgaa tatggaatgg atcaatatcc accttcattg 360

gtttctcttc

370

<210> 24493  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 24493

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acctggagat atgtcgcggg ggtcaggaga ccttagggac gtcagggtggg gtgctattgc 120  
ccaaaaccaa gcttgaccaa tcccaaccca acccgggcat agtcgggtcaa tgagaacctg 180  
tgaggtacct aaacaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240  
agcaaggagg cttgtgggtg ctggccagct gtgaactttg attgatatgt gggttatggc 300  
ctctggtaat cgattaccaa ggaagggtaa tcgattacaa ggcttaaaaa tgaagacagg 360  
aggctaagat ggtctctggt aatcgattac cacgggggtg aatcgattac caggcttgaa 420  
aac 423

<210> 24494  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 24494

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ggcaacaaaa agtcaccccc aacagccaac aagtcagcca ccatttggtc tcccaaaagg 180  
ctgatgcta ggttgccaat tgggccctta ttacaacttg aactaaacct aactaaagca 240  
cttttagttg attcacccaa aacatatttt tggtcagcca actttacaag gattggggcca 300  
ttattttgac aaactaaaca ctctaaaatt gagacaaagt ggtgtcattt agtcctcctc 360  
catttggggc atgat 375

<210> 24495  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 24495

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aagagttagg tctagccgcg gcccacgagc ataggattgc ggacgaatat gcccaagtat 120

acgcggaaaa agaggctaga ggaaggggtga tcgactcttt acaccaagag gcaaccatgt 180

ggatggatcg gtttgctctt accttgaacg ggagtcaaga acttccccga ttgttagcca 240

aggccaaagc gatggcagac acctactcca cccccgaaga gattcacggg cttctcggct 300

attgtcagca tatgatagac ttaatggccc acataattag aaatcgttag gaaaacttgt 360

atgggtctctc agaccttgac tagatatgaa cttccttttg aaataaaatg agttgggtccc 420

atgtttctac tcca 434

<210> 24496

<211> 373

<212> DNA

<213> Glycine max

<400> 24496

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aatagtcttg gaagtcattg cttccacaaa tcattccagg actcaccacc atcacctgag 120

acatgtgtgc tttaaaacat aatatgatgc ataaatggaa ataggacata tggaataatc 180

gtaagtggca caggaaaaac aaacatgaca aattgaaagc atctccaggc tacaaaataa 240

aaaatataat ttttttttaa ttagatatga accccaaatc agagtgagaa tctgtttgca 300

ccaactctat catgcatctt aaatatgact aactatctat gatggatgag gcctttatgg 360

tttatacaga cag 373

<210> 24497

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24497

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taatataaaa ggattagtag tttgggtttg tgtatcacat tttatctatc aataataatt 120

ccagtttatc agcctgagcc atcgtctctc ttttctttct tccctaacc taaaattata 180



caaaggaagg attntccttg tgtgtttaga acttgtaaaa ggaatttaca agatagtgga 420  
actctcaagc 430

<210> 24500  
<211> 170  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24500

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atagttaagc cagccccgac acccgccaac acccgctgac gcgaaccct tgcggnccgn 120  
ttnaatataa cttnnnatca tgtatgctat cctacgtatt agccatgacg 170

<210> 24501  
<211> 298  
<212> DNA  
<213> Glycine max

<400> 24501

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ttattgtatc atgcttaatc ttatgcgttg gctgattctg atcatggggc agccagagat 120  
taccctcttc atgcaacgaa catgacacct attgggtctcc aaaaaggctt gagcctaagc 180  
tgccaaaagt gcccgttatt acacacgaac taaacctagc taaagcactt gttagttagt 240  
caccagaac atatttttagg tgagccaact ttacatggat tggggcatta ttttgaca 298

<210> 24502  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 24502

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gattctgaca tttcttgata tatataattt tctctttgaa agttctacga tttctccgcc 180  
ttggggcttc cactattctc tctctgcatg ctctgacgtt gaacgacatg ccccatcacg 240

cctttgtggt ttacgtatca aattcgaatg ttgagtcgct cttgtgacgc atttagattg 300  
 actactactt ttgcttatgg gatatagcac cttcttaatg gtgcatccaa caagcataag 360  
 tagtgaaaac 370

<210> 24503  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 24503

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 ttaacctagg gattgatatg agctcatatg ttcttcatgg ctgaatgtaa ctgaaattgt 120  
 ggtcgccaaa agtcaccccc aacagccaac atgtgctcca ccatttggtc tcccaaaagg 180  
 ctgatgccta tgttgccaat tggggccctta ttacaactgg aactaaacct aactaaagca 240  
 ctttgagttg attcacacaa tacatatattt ggtgtagcca gctttacaag gattgggcca 300  
 ttattttgac gaactaaaca ctctaaaact gagacaaagc ggtgctattt aggcgtactc 360  
 cattt 365

<210> 24504  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24504

ttaacatcca gcaacaacaa tagtagagag atatattagt ttgatggtct attgaaatgg 60  
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 tttgaaggct tatttaaagt ggtgtaagtt gtaacattta tttaggaggaga acattaggtt 180  
 tatgaattat ggtcttcttc gtcattgcaat gaaacccaat cttgatacac aatagaccca 240  
 aggaatgaag cctacatttc tgctatttta tgatttcttt aattttctct acaacactaa 300  
 cattatctat ggtagacagc agtaaaaaat caactcatca aacaatagtt cttttcctta 360  
 agcttcctta ntaccatta aaattagaaa actaaccaca gataatgttc act 413

<210> 24505  
 <211> 366

<212> DNA  
<213> Glycine max

<400> 24505

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ggggtagtgc taatttagaa aatcccttaa tgaatttcct ataatagcca gccaacccca 120  
agaaacttcg aacttctggt ggagttgtca gttgttgcca ctccataacc gattccactt 180  
tagccgggtc catcgcaacc ccgctcttag aaatcacgtg cccaggaac tgcaccttct 240  
ctaaccaaaa tttgtatttc gacagtttgg cgaacaattt cctatccctc aggatctgta 300  
acaccatcct caagtgcctt taatgctcct ccttattcct cgagtacact aggatatcat 360  
caatga 366

<210> 24506  
<211> 402  
<212> DNA  
<213> Glycine max

<400> 24506

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cgaaaaagga tgaccctagg gctgcaaact cgtcaatccc gtgggtatgg cttttgaaag 120  
gggggaaaag aagattttga atgcaaaaac gtccccctt tgcgtattct tataatttgg 180  
tgcaggggtg gctcgcccag actcgcccag ctcgaccatg cgagctaacc tgcataaag 240  
ctttcttaat aagttgaggg gaacattaac catgttacct accttcacat ggattatcac 300  
ttagtctacc ttgatcttac ttagggcaga atgaagtgc gcttccttga ttgtaccatc 360  
taacacaaac actatagctt atatatagct gtatattaca gg 402

<210> 24507  
<211> 358  
<212> DNA  
<213> Glycine max

<400> 24507

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atctgcaatt tcaaaagaca attttccatg atctgaccgc tcggatcttt gagaagatgt 120  
ctggagtgtg ctagaagcct cttaatgaag cttctagagg aagcctctta atgaagcttc 180



tagaggaagc ctattagtga agcttctaga gataactaca tgaagctgcc tgggtaaaaa 240  
 tgctgcccag cctacgttaa cggttgaatc tttttgaaat ttggtttgca acttcacaag 300  
 acacttttcc atgatctgac cgtgctagaa gctttcgttc ccgagagcat ttcttatt 358

<210> 24508  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 24508  
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 tgattcagtt agtccagcag tagaatcaac tacagattta gaggaagaaa agattatgga 120  
 gaatgagtag tccaagagga cttcattgga gaataagatg gccagggtgga acaagagaaa 180  
 gagttgaaac aaattgaaga atcattactc gaagcatggt tgaataaaga cgacttactg 240  
 gaagtagatg cgatgagttt cttggctaata gctgggttaaa atgaaagtgt tgaggatgat 300  
 atatgcgttg agaaaaccaa ttgtgctaca ataagcaatg tagaagatga caaagtagta 360  
 gagacaacat tcgacaagcc taccatagag attgtagaac atttgagacc attctacatg 420  
 aaccgctcac t 431

<210> 24509  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<400> 24509  
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 gaccattggt cttccttccc gcgatgctcc ttttcatgtc tgcttgagtg ggcttatagc 120  
 ctaaaccata cttccacga ttaccttggg tatttatcag tctagttatg ccgccgttgt 180  
 tttttcctaa acccatcccg ggctcataac cgttccccaa cataactcgg gccatcatta 240  
 ccgctgcacg ggacagacta ggctgccccaa agagggagtc cacggaggaa atgctgacca 300  
 cctcaaaaga ctggaaagca gtttctaacy attcttctgc ggcttcaca taaggcatg 359

<210> 24510  
 <211> 394

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 24510  
  
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 cgacagtcac cgcttttagga gcgctgtaca ccaccagcac ttcaaggcca tcaagggatg 120  
 gtcgtttctc cgggagcgac gcgtccagct catggacgac gagtatactg attgccaaga 180  
 agaaataggg cgctgcgga ggacatcact ggttactccc atggccaagt tcgatccaga 240  
 aatagtcctt gaatnttatg ccaatgctga ggccaacaga tgagggctcg cgtgacatga 300  
 gatcctgggt aaagagtcag tggattccgt ctgatgccga cactatcggc cagcttatgc 360  
 gatattcgta cgcgttgga gaagaccact aatg 394

<210> 24511  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
  
 <400> 24511  
  
 agcttggttt ggcaaattt acagaaaagt tcaataagat aacaaatttg acatatgagt 60  
 ataaacaatt caaaaatagg tgagattctt taataaaaag gaatgacaat tatgggctaa 120  
 ttaagcttat tgggaaggac actagtcttg gctgagacgg agacaagaaa accattgctc 180  
 ctagtgatga atggtgggaa gccaaaattc aagtgtgtac tattcaacta aaataaagtt 240  
 agttctagtt gcatgtcatt gaactttctt cagtaggaag tatgttaatc aaacactcaa 300  
 tggaaattgc atgtaattgg agagtaatgg gtttctcctt aagagtctct ttgtcaagtc 360  
 caagtgtgac ttggga 376

<210> 24512  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 24512  
  
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 gaggatgaaa agattatgga gaatgagtag tccaagagga cttcattgga gaataagatg 120

gccaggtggg acacgataaa tagttgaaac aaattgaaga atcattactc gaagcatggg 180  
 tgaataaaga cgacttactg gaagcagatg cgaagagctt cttggctaata gctgggttaaa 240  
 atgaaagtgt tgacgatgat atattgcgtt gagaaaaccc attgtgctaa cctaacgcct 300  
 gtagaagatt gacaagtagt atagacaaca ttcgactagc ctacaataga cattg 355

<210> 24513  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 24513

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 ctgttaaagg caccacaac gccgacgtgt gaagttcaga accacactta accacgtcaa 180  
 ccctgatgtg ccaaggttcc agattttggt aagaacatcc ccaaaacatt cattcttgctc 240  
 ccaacattgc atgtgaaata gttaccaact aaccaacat tatgacaatg acaaaggcat 300  
 gcaccacaag cataagcatg tcttccaat gaagaagccc tatgttgctc cacaagtatc 360  
 ttataccagg agcact 376

<210> 24514  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24514

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 cccccacttg aaatttgaaa agaagatttt cgaggatttc ataaaattgt gcataaacia 120  
 aggtgtcata caacttgaac ctttgcatag tgagtaagat tcagatttta ttagagtgac 180  
 tcgaagtctt gaactctatc tccgacatca aaccacacac aaccttttca taggtgtatt 240  
 ctataaagcc cgtgcgttaa agaccatgca cgtctatccc ggtatagtga acgctctaga 300  
 natntttgcc caaaatttca tatgaagcgg cccccacttt aacattcaca taggtgagtc 360  
 tatcaagagt actcctgt 378

<210> 24515  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 24515

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 caacgcggac ttgaccatt gttcttcctt cccgcgatgc tccttttcat gtctgcctga 120  
 gtgggcttat agcctaaacc atacttccca cgattacctt gggatattat cagtctagtt 180  
 atgccgccgt tgttttttcc taaaccctac ccgggctcat aaccgttccc caacataact 240  
 cgggccatca ttaccgtgc atcggacaga ctaggctgcc caaagaggga gtccacggag 300  
 gaaatgctga ccacctcaaa agactggaaa gcagtttcta acgattcttc tgcggcttcc 360  
 acataatgca tggg 374

<210> 24516  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24516

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 attggataat ttcttcattt ggttttgatg aaaatccata ccacaagatt agtgggagta 120  
 aaatatgatt tcttgtttta tatgtagatg atattttact tgcagccaat gatcgggggtt 180  
 tgctacatga ggtgaaacaa tttatctcta agaattttgg catggaggat ataggtgatg 240  
 catcttacgt cattgacatt aagattcata catatagagc tcgaggtatt ttaggtttat 300  
 cacaggaaac ctatattaac aaaatttttag agagattntg gatgaaagat tgtttaccaa 360  
 gtgttgctcc ca 372

<210> 24517  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 24517

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ttctgttgag accatgtttt ttttcttagg tctttgcttt aatcaattac gaagatatag 120  
 gaatcgatta catggttctt gaaagtgttc ccagaagtga tcaagactac tttaatcgat 180  
 taaatcaaga atctaattga tcacattggt attgaaagtt ttccaagtgt tgggaagaac 240  
 actttaatcg attaaaaatga gaatataatc aattacatct ttgagataat cgattacaag 300  
 ttgtttctaac tattttctct atatatagcc accttgtgtt ctcaactgtca agcattcaaa 360  
 acatacgggt ttgaatgaac ttttaactca agacttcaat gatcttttgt tgaagatttc 420  
 aaatgttaga gtgagt 436

<210> 24518  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 24518  
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 atgattttca tgacggcctt cactctttaa ctctttacgt gttggatgtt acccattctt 120  
 ttcattcctt gagattcatt gagaaaatag taattgttgt tgtgttttgt tgtttctctt 180  
 taatgtctct ggatttgtcc cttgctttgt tttttatttt gcccaggagt gcaaaagcct 240  
 aagtgtgagg ggatttgatg tgatcatcatt ttctcctaata tcttaaccct ttttgtcacc 300  
 attttaatta ctgattagcc ttaattgtca aattaattat gcagctgtat catttaggca 360  
 tattgga 367

<210> 24519  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24519

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 acataaacat atccacaaat gctgttgtct caagtgcacag gtggcaactg caatttcatt 120  
 cacgtcacc ctccaatttc tcttattttac cttcataccc ctcactttta tccataatta 180  
 ttaattatca ataagcacia aatttaagta agtgctgcag cctgcaggtc ttcctttttt 240

ttttaacact catatccata agtgaaaata ctaatcagaa atttgataaa aaaaataagt 300  
 aaataattta atcttaattt tagtatattc atcatttaat gagttctgcg tgtttgacaa 360  
 aacacaacca aaatcatttg tagaataaaa aataaaaaat attttttttt cataaactca 420  
 aattaactnt ata 433

<210> 24520  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 24520

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 tatttggaaat tcaatgccac ttagtctgac ccaacaagaa cttccagtaa gaatatgctc 180  
 aacataaatg acatactcta gtactcctcg agtggattgt gcaaattttg ccccccaatc 240  
 aatttcttag cttcacactc ttaatactct ctacttggtt aaaaagtatt caggggtttcg 300  
 ggtattgttt atttggagga aaaaggaaat tgggtgtagac ttcaatcaat tattttttaa 360  
 tctaaca 367

<210> 24521  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24521

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 cattagcagc tttggagcaa ctatagagaa gaacgcgaag gaggaatgca aggtagtgtt 180  
 aactagaagc cagaggagag cgcaagaaga agaagagaaa gctgaaagag accagtctga 240  
 ggaaggaaag gcagacaaaag aagaagagaa ggaggaagaa gagaagaaga gggaagaaga 300  
 agaagtagag aaaatggtct taacctctaa gaccaaagc caacaagccc aagaggctat 360  
 gaaaaaagag tcaccaaccc ctctaaagga gccctatac cctntagtgc catcaaag 418

<210> 24522  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 24522

atcttgcaat attttttgtg agagttataa acttattgaa tgctagcgta aacttggcgg 60  
 attattacaa ttaaacataa tcctaattggt gaagctaaat tactatacaa ttttttgcac 120  
 ttattttctct ataaacattc aatggctata ttatatccca actagactcg taaaaatttt 180  
 aatttccaca tctattgatt ttaaccatga tctaacgatt attattagct gtgtctttca 240  
 aactccgtga gattaaaatc aaattacact tatgattaaa aagacattga gtttctaata 300  
 attcatattt cttaactaac gattatggat gtcttctaag ctgccggatc atatattgac 360

<210> 24523  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24523

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 tttcttatct agttcgaaca gatggcatct aagatcatgg ttatatatta ttagtgctga 180  
 tcaagcattc catgaaatat tcataatatt aatgtttttg gtatacggct gatcctacaa 240  
 gtaacaaaat catttccaga atatttaata cagtcttatt gtcaagattc aaactcaaga 300  
 tcacttgtaa aatcaaaaac aatttcatag gagttgatat atccatttga tagtcataaa 360  
 atactcatat ataaagaaaa agtatataga tatatggtaa agacatttat ttccttatat 420  
 agctagattc 430

<210> 24524  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 24524

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cataaatcac aagacaccat tggtatctat cttccactaa accctttgct agtccattta 120  
gataacatgt attcattgta aatgaatcca ggctttcatg tctactctag tcatgaggat 180  
catgatgtgg gtcatgaaac acatataact ctgaaattgt ttgagataac taaatcatat 240  
tactcctatc actatgggga tcatacttat taagatcatc gagagatgtg ctcattacag 300  
atgtactata ttgccggata gtgagaccca tatatca 337

<210> 24525  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 24525  
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ggttcattat taggttgtaa tttgcttaat aatactatag cagagaagat atagaagggtt 180  
caacgcattt aatcttcgaa atttgtttga tacttgcttc tttgtagttc cccccacatg 240  
caaaaccata tataacggat ggattagcac ttatttagca ataaaatata tacacttaca 300  
ctggattatg tttatgaagc atggacaatt gtgggttccat ctatgcaaga caagatgcat 360  
tacaggatca ttgactaaat aaagtcaact acaccatccg caagtttcaa gattctt 417

<210> 24526  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 24526  
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tggaattga attctgacca ggctcctagt aaataaaagg ttaaaatact tcttcgggtcc 120  
taacaattga gtattatgta cattatcgtt tatgtaattt tttttggttt tttttcatcc 180  
ttagataggt ttagataaca ctttaaataag aaaaaatata atgtaaaaga tgataaatac 240  
gaaaaaaaat attttgcaag aactaaataa aacaagagaa gttatagaaa tgaaaataaa 300  
aaaaacgtta aattacagat aaattttttt ggaaggacta aaataagcca aaatactggt 360  
tcag 364



<210> 24527  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <400> 24527  
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 agcacgaagg aaaaaacaaa cacaccacac tgtatgtgtg cacgaacaga taagaaagca 180  
 tattataata tacacaagaa ccaatgaagc acaccaaagg caaccaagaa tatccaagtt 240  
 ctgataggag aagccataaa atagccacga aatattattt ggaattgaag agacctagtt 300  
 atcagaaccg cctatagatt ttagtaaata gataagcaag tatgtaacac aaactttcca 360  
 ataggcttga aaactcactg ctatcacatg tgtcacagat ggacggtaca ggggt 414

<210> 24528  
 <211> 366  
 <212> DNA  
 <213> Glycine max  
 <400> 24528  
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 gaaagctggt tgtctttcat caattaaggc aggtataacc tgtctcaacc tgcttgctag 120  
 aagcttagct atcactttgt acatgcagcc tatcaaggat attggtctat aatcatttag 180  
 ggactgagga tggttaactt tggggataag agccaagaaa gaggcattgc tgctctaggt 240  
 gaaacaaccg ttgacatgga actcatccac aaatcttctg aactctggtt ttagcacact 300  
 ccagaattcc ttaataaaaat tgaaattaaa accgtccggc ccagggcact tatctccacc 360  
 acaact 366

<210> 24529  
 <211> 348  
 <212> DNA  
 <213> Glycine max  
 <400> 24529  
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$\frac{d^2\sigma}{dE d\Omega}$

<400>            24530

<210>	24531
<211>	313
<212>	DNA
<213>	Glycine max

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cttctgacgg	tgccctattg	tgtgctactc	ttattttagg	caaattccct	tacgaatccc		120
tcaa	atctag	gacttatcat	aatttgaaac	ccttatgctc	tcttaaaacc	ctaaaataac	180
gtcaaggata	tcaaaattac	gctcaagggt	ttattcaa	aac	aatcattat	taccttttagc	240
tcaacctggg	tgcaaaggat	caatacatta	tatgtttggct	ttttttaatcg	aatgacttaa		300
atgaaaagaa	aca						313

10262

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24532

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gctgcgctat tgtccataac ccatcttgac caatgctgac ccatccgggg catagtcatc 180  
cttagagaac ctgagatgta cctttacatg cgagctcctg gctgtcaaca gatttaagga 240  
acanagacca caatttcgcg agagctgtgg tggctggaca actgataaat atggtgatat 300  
atgggaagtg gcctacggat atctattacc ggaggggctt aattga 346

<210> 24533  
<211> 322  
<212> DNA  
<213> Glycine max

<400> 24533  
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cccaaaacca agcttgacca atcccgaccc aaccgggga tagtcagtta atgagaacct 180  
gtgatgtacc taaacaggct agctcctggc agtcagacag ataaaatgaa caaagactac 240  
aaagcaagga cgctagtgtg gcggtggcc atctgtgaat cttgtgtgat atatggatta 300  
tggcctcttg taattgatta cc 322

<210> 24534  
<211> 371  
<212> DNA  
<213> Glycine max

<400> 24534  
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gaccaaattt ttaaagtatt tacctataat ttctacatat attgattggt actataagta 180  
gttcaagatt acctggtaat ttctcttagt atgaagtatg gatcaaaccg gttaactat 240

gctgatgata gtttagtttt tttattacct gcttggataa gttcttagtt ctccgtacgt 300  
 tatggccaat ttgcgtcaga ttcattcata atggtatggt tacattgctg tctaagctgg 360  
 tccctgatgg t 371

<210> 24535  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24535

ttctttatcg ttggaactcc agtatctttc atttgatctt tggatngatt ggtaaagt 60  
 gttgtctctt atttaaccct tcttttatta tattgttatg ttagcatatt tgtgcaacat 120  
 catcgttaac ctatcacaac aataattttt attaaaaaat tgacaatata ttaatagtga 180  
 actaaaatta ttaaaatttt aaaatgtgag agatcaaagtg taaatgtgta gtataatatt 240  
 tgaataatca aaattacaca atcataaaat tacaagagtg tttttaaacc tattatgtat 300  
 tcaaaattaa agaataatat taaaaaatgt tataatttac tatactctat tatgcacttc 360  
 ttctatttta aaataaaata taaacgtaaa aaaaacaaca taatttgata cataacgtaa 420  
 taa 423

<210> 24536  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 24536

agttttatgt tgctcaattg ctccaggttg ctgcatggaa gggcaaaggt ctgtatggtg 60  
 gtcagcagag gagcacaaac cacaaaccct tgcgacaggt acagatttct gattcaaggc 120  
 cagctgggtt accaagataa ccaatgcacg cagtttgctt tcaagcttct tagtttcaga 180  
 tgatgcagat gggttttagt ctacctcatg cactcctcta atgactatgg catcatttct 240  
 ggcgctaaac tgctgggagt tagaggccat cttctcaatt aaatttctgg cttcagcagg 300  
 agtcatgtct ccaagggctc caccactggc agcatctatc atacttctct ccatattact 360  
 gagtccttca taa 373

<210> 24537  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 24537

agctttgctt ctacagggaa gacttatctt tggacttcat aggggggattg tcgaccctta 60  
 agggcaatac agtgggtgctg gtcgtagtgg acaggttctc taaaggaatc cattaggggtt 120  
 cgctcccttc acatcacaca acattcaatg gtgctcatct ttttatggag atcgtgggaa 180  
 aacttcatgg gatccccac agtttagtct ccggtcgaga ccattattc atcagccgct 240  
 tgtggcaaga gttgttccga ttgagtggct cgaaacttca tatgagttca gcctatcacc 300  
 cgcaatccga cgggcagatt gaggtgatga acacggtggt tgagcaatat cttegagcat 360  
 ttgtgcactc 370

<210> 24538  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 24538

tcagccatat gtttagaatg acttttttta ccacactaca tcagtttctc aagctcacta 60  
 gaaaaaagga aagtaaaagt aaaagctcac tagctgaatt actattcctc agttagggtc 120  
 ttaatgaatt gaacactagc aaatgttggt actgtgtcaa caaattcatt gaaaagcata 180  
 gggagccaaa tgaaaccttg ttctcccatc cacttccaaa cttcaaaagg gatatcatct 240  
 agaccaacaa ctttacccta aaataacgaa aacaaatatt cccttgacta tacaattag 300  
 aatcaaatag actattcttt ttagtgctgt aaatctgaat gaatctccta aaattaaggt 360  
 ctgaaactct aatgaatct cctaaaatta agcctcaatc actgacatat agtatcataa 420  
 acaagaatgg aaaaaa 436

<210> 24539  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 24539

agtttatgtg tatggaacac ttacttggtg gtgatgaaca aaagcgcaaa acggaatcaa 60

aaaatgcgga aaaggatgac cctagggctg caaactcgtc aatcccgtgg gtatggcttt 120  
 tgaaaggggg gaaaagaagt ttttgaatgc aaaaacgccc ccctttcgtc attcttataa 180  
 tttggagcag ggggggctcg ccagggcgag ctaacttgca catttttttt tttttgaggg 240  
 gaacattaac catgtcccct ccctttctcat ggattagcat cttgcctaac ttgaacttac 300  
 ttatgttaga attaggcgat gaatacttat tttttttact ttttaaaaca aacaaaaagt 360  
 aaaagaaagc tg 372

<210> 24540  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24540

ntcatctagc caagattata caaagggtgtt acaagataac ctaacgggttt ctaattatct 60  
 gggccatcaa atctatcatg tgttgacagt aattgattag cccatgaatc tctcgggggg 120  
 ccgtacacac ttcggccatg gcttttgctt tgactaatag acgcgggagg tcttgacttc 180  
 cattcaaggt caaggcgaat ctatccatcc acatagtcgc ttcttgatgc aatgcatcaa 240  
 tcacctccc tcttgcttct ttttcggcgt acacttgctc aaaatcctct gctagctttt 300  
 gttcatgggt cacagactgg ttcaattctt ccttttactg ccctatgata gctagcatgc 360  
 tttgttccgt ggcttccaag tgttgggcca aactccttat ggaccttggt caagcagccg 420  
 attcttc 427

<210> 24541  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
 <400> 24541

atcttgtatt attatgggggt acccatcaca tgtggtacta ggtggtggac gggcgatgg 60  
 gcacatcaag tttttcacat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120  
 ctccaactga gctcacgtac tcccacgtag cccatattct cgtttctctc agacaccggg 180  
 tccccatcaa tcttccaag cttccacagc atgcaagcaa aacaacattc aaacatcaca 240

agctatcata gccaaagcaa acagagcaaa tgcagaaaac tctgctcaac acatcaacca 300  
aatcacagc ttttctcact tatagaccac agtaacaatt ctttcgatcc aattggataa 360  
ccgttgatc gactc 375

<210> 24542  
<211> 448  
<212> DNA  
<213> Glycine max

<400> 24542  
ctaagcttga aagcattgat ttgatactgc ttccctcatc atgtggctta tgatgtttac 60  
aatttaatga tcctttgcta ccctacaatg agacacacac agatacacia acacacacac 120  
atagagacia acacacgcag acacaaacac aaacacagac acacacataa agatacacac 180  
acgcacacac acacacagag tcacgcacac ataaagacac agacaaagac acaaacacac 240  
tgagccacag acacacgcag agaccacac acaaagacac acacactgag tcataaacac 300  
acacatacac aaacacactc acacacatgg acagacacac acacacataa agagacaaac 360  
acacacagat aaagagacia ccacaaacac acacacccac acacacacag ataaagagac 420  
aaacacacac acacacacac acatacac 448

<210> 24543  
<211> 366  
<212> DNA  
<213> Glycine max

<400> 24543  
agtcttacct ttggcctctc ttaatggatc tagacgtgac caacataatg gtctctataa 60  
gactaaataa gggacaaatc aaccagtcct cctccaaatg gaggtacaac aatcctaaca 120  
atagctaacc ctggctgtgg ctttgccctt gccctccgct actgatgttg ttgacgcttt 180  
tcacatatt gctagtgtc caatgtagac actctatgat gtctctctgc aacatcctcc 240  
cctttgtaca aagggccttg atggaaactg tcacgtctaa caacgtacaa tgtctgcttc 300  
gtgcaagcca tctaaatctt ttttataaaa ttaactcaat aatcataata aaaaagtata 360  
tttatc 366

<210> 24544

<211> 364  
 <212> DNA  
 <213> Glycine max

<400> 24544

gaaaacaaat tgagatggtg agatcagata gaggtgggga gtactatggt agatacacag 60  
 aggatggaca agcaccaggt tcatttgcca aatttcttca agaacatggg attgttgccc 120  
 aatacactat gcctggttct ccagatcaga atggtgtggc agaacgaaga aatcgaacct 180  
 tattagacat ggtgagaagc atgaagagta atgtaaagct tcttcaattt ttgtggattg 240  
 atgctcttaa gacggctgca tatatattaa accgagttct aaccgaggct gtctcaaaga 300  
 caccttttga gttattcaag gattgaaaac caagtttgcg acatatacgc gtttgagat 360  
 gctc 364

<210> 24545  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 24545

tttcaagttt gatgtttaa gcgagaagta cgtgtttgtg ggttacgact caagatccaa 60  
 gggatacaaa ctctataatc caaatagtag aaagatcatc ataagtcgcg acgtagagtt 120  
 cgatgaagaa gattgatggg attggagtgt tcaagaagat aagtatgatt atcttcctta 180  
 ttttgaagaa gatgatgaaa ttgaacaacc aatcatagag gaacatatta caccacctgc 240  
 ctccaccgaca ccaaggctgg atgaaacatg ttcaagttag aggacaccgc gactaaggag 300  
 cattgaagag atttatgagg taaccacaaa cctaaacgac attaacctct cttgtctttg 360  
 tggtgattgt gagc 374

<210> 24546  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 24546

cgctaggag aaaccataaa atagtcaaca acctttagtt gatttttaggt ggtacagaga 60  
 tacttttcta actagggttt acacaagaga agatagtcaa caaccttttt ggaaagaaaa 120



atttctagcc	ggtcttccca	gatcattagg	agataaggtt	agagataaaa	tccgtagtca	180
atctgccaat	ggagatatct	catatgaaag	tttaagttat	ggccaattaa	tttcttacgt	240
tcaaaaggta	gccttaaaaa	tttgtcagga	tgacaaaatt	cagaggcaat	tagccaaaga	300
aaagggtcaa	acaaagaaag	attaggttct	ttctgcgaac	aatttggtct	accggcctgt	360
ccaaagcaaa	agataaaaaca	atcttcaaga	aaagaaatcc	atgagaataa	accggtcaat	420
acaaagagat						430

<210>	24547
<211>	366
<212>	DNA
<213>	Glycine max

agtttatgcg	catacttctt	ttacgaacgt	tcacttgac	aagacattct	tataactacg	60
aaaaatgcac	ccatgtacaa	tcaaggcacc	ttcgttacct	agattattta	tatgtgcttc	120
caaagagtat	ttgttaccta	catctcatgc	acttccttgg	ctaaatttac	atacatgcgt	180
actcagagca	tttggggtag	caaaaattgc	acatgtgcac	attccatgat	tgctaatact	240
tatgcatata	caaactttgt	gaggaatatt	ggctatctac	acaacaaggt	gatacatttc	300
atgctttact	caagatatgt	ctacctaaag	cgcgatgcaa	attcaagtat	attttctttt	360
gctgac						366

catagtaagc catggataag agcttgaatg taggagaaga atagtggagg gagagggaga 420  
g 421

<210> 24549  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 24549

ggtttttatt tctcaatcaa tctgtctact gactagcgct tctaagtgca agttcacatt 60  
cttgatgttt atttgactaa catacacact tggacaaact catgataagt aacgcaaatt 120  
ccatcacaat catgcattaa atccaaacgc aaaccataca ccatttttca catatagata 180  
aaagtggctt acttccatat gatctaaatc aagccaaact gttccatatg ctggaaaatg 240  
agccatccaa ctacccatat ataggaatag cagtgtatat aaacataaaa gacatactgt 300  
actgaaacca taattataat aataataatc ccaacagaga acaaacagca tcatcatgaa 360  
ttta 364

<210> 24550  
<211> 329  
<212> DNA  
<213> Glycine max

<400> 24550

tagggactaa agttcgcagg tgttgagcgt ttggttctat gtctgctgat gttcgatcaa 60  
gtggcctcat aataattaag aaggggggga tgaatcaatg attcctatac cttgactaat 120  
caaaaattac tcttctaagg ctcttactat attgcacaca gaatgacgag tctaacataa 180  
actgaccaga atattctatc cgtacttata tgcactactg aaagtaatac agtaaggaag 240  
aacgatactg acacataata ggttttatac tggttcagca actacccttg cctacatcta 300  
tggccaacgc gacctgcggt ccttgagat 329

<210> 24551  
<211> 243  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24551

agtttgnagt atnaagggga acccatcgca tgtggtagta gggggcaggc agccgatggt 60  
gcacaacatg tactacacat ggacaatgcg cgcataaagc caacattccc tgttgaccac 120  
atccaactga gctcacgtag ttccaggtag accatatgct gattcctatt aacaccgagt 180  
gctcatcaat cctcgcgagc ttacacaact tgcaagccta tccacattct atcagcgcaa 240  
gct 243

<210> 24552  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 24552

tcaggctggt caattgctcc agattgctgt ttagattggt ttaggtctgt gtggtggtcg 60  
gtggaggatc atataccaca gagtctggcg acagggtgcag atttttgatt catggccagc 120  
tgtgttacca ggctaacaca tgcactagtg ttaccttcaa gcttcttact ctcggtgat 180  
gaagatgaat tcatggctac ttcatgcact cttctaata ga caatatcttc actcctggca 240  
ctaaattgct gggagtgtga agccatcttc tgaattaaat ttgtggcttc atcaagggtc 300  
atgtctccaa aggctccacc ataggcagca tctatcatac ttctctccat gttactgagt 360  
ccttcacaaa aatattgtag gagaaaactgc tcataaatgt ggtggtgatg gcaaatagca 420  
cat 423

<210> 24553  
<211> 333  
<212> DNA  
<213> Glycine max

<400> 24553

tgtctggacc acaagtgata gtatttacct gtctgtctct taaagcctca acaaaacaag 60  
gtgtgtatct gacttcagta tcacctatcc ccagttggcc attttcacct ctgccccatg 120  
agtagacact cccccagaa gtcaaaacag caacatggta tgaaccgttt gatatcacct 180  
taacaaactc ttgtttgaga tgttcttcag acatgactgc tttatccgtg tcatgtggat 240  
ttactagttg tgcataattg gcacttgcca ttgcaaaaac cttgccgatg ttagagagag 300  
ctacagtoga cattcttaca catgacactt gaa 333

<210> 24554  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 24554

tgtatagtat attatgacta ttattatttc gacaatatta tcaccactaa acaaagagga 60  
 tatatgattt aacacctgaa attaattaaa taagttccct ttcgattgaa tactgggaaa 120  
 acatgactta taattgtttt ttttatatat aaatatgcgt gtaagagtgc taaaatgtaa 180  
 aagagagaga gcgcgataga gagagagaca catattttct aattatttta tgatttttct 240  
 gcttttagta tgaatgatag gaatttataa ttcgaaagac tatgttatac taatagatga 300  
 aattttgatc gattcacgat tacgatgtga tgaggcatgc atttatgggt tagtttcatt 360  
 tcgggttgta ccagtatggg tgtagtattt gttcttgta ataaaataag ctcttttagc 420  
 cttgt 425

<210> 24555  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 24555

tcggcttgca agtttggaag accactgtat gaggagtgtt gtagcagagg acaacagccc 60  
 accccttatt gtatccccac aacccttat cgcagcccca cagtatgaat tattgcctga 120  
 ataacaacga aacttataca ataaaaacac ttgataaccg atatcctcat catggaaatc 180  
 actaaatttg aaagacgacc ggatgacacg ctgaagttca aacagatata tcagggttaa 240  
 aaagaatctt actaatgacc ggttaccta taggcgatgt cttgcatgtt atttcacttg 300  
 cggctctggaa gagtttatta ttgtggtggt gaaaactact aggactatga tcgacttctt 360  
 tcattcat 368

<210> 24556  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 24556

tgagaaatct caggagacca ctagatatgt ctttggtgct gctggaatac agacatgagc 60  
 ccgcttagag gtaaaggatg agcttatcgc aattgggggtt ggaatgaaca tgtgtaggga 120  
 tccttatagg attaaattga gattcattttt ggaatgttta ttaaattaaa attctccttt 180  
 aggattataa atataatatt gttgtgtttg atggaccaat tgatgttttg atgtgaattg 240  
 gttgataaac ttgagtgtc ttgatgtgtt tgtgttttta acctatgatt ctgattcatc 300  
 gattctatat gattgtgtgg aattgtgttg aggggtttta ctcccatgt tgtgggaagc 360  
 attttgata aatt 374

<210> 24557  
 <211> 140  
 <212> DNA  
 <213> Glycine max

<400> 24557  
 atgttttggc ctagcgttct gggtgaggct taatgtgttc atggaggatg tacagatgaa 60  
 cttgcatctc ctggtgtgct agcggatctg tttatacgtc tcacatcaat gaattctaca 120  
 tctgtcgcgc atctgtaggc 140

<210> 24558  
 <211> 595  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24558

gcagcgctac acacactaca ctacatccgt cttctgactg acactgaaga agtgntgcgc 60  
 ngtagtgnta acttaaccn cgnncnncatc cncccccac ccccgcggcg ccnattgaaa 120  
 cgttttgact ncngtgacac tacacaanac nccagcgagg cacatagcag ggacacagac 180  
 tgagggccca actttcctac atctatgtga ctaataacga atagggttaac acgataaatg 240  
 gaccttaata aattttgaag atgaacgccc gattgcaaat tatacactta tacacagnta 300  
 atgacttctt cttttttcta aggcagaggg tggtgattaa ttcagctaca tggagatagg 360  
 attagaaacc gagagccaaa taatttgtcc aaacacgatt gaaaatgaaa aacaaagaaa 420  
 aacactgatt cctcattcaa attactatga tcaacacata gtacaaaatt tattacaatg 480

aatcctctac ttgtgagtat gcttgttcca ttggaaagag atcaattcgc atgcaaccgt 540  
catagtacta cacttcttct atttcagaaa ttaacacgaa tctcacactg catat 595

<210> 24559  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 24559  
agtttttagat ataaagccta ggaaatagca aatctacgtt ggagtattca taaacaatta 60  
cagaaaacac ccactatgac agcaaaggca atgaagttaa gaaatgcac aattatttag 120  
cacttacaga aaattatgat atctttgaaa tcatataatc ttcagctctg agattgctca 180  
tcatcaaaat ctctcccggt agctgaaggg aatataatag tcttaacttc actccctatg 240  
gtggctatgg ttttctcttt aacctacaaa tttcacagca ttgcatgagt gatagtttca 300  
gacacaaaat gtacaaaaat taaaaataga atataggaac caatgtcaac aattgaatgt 360  
ttgaaccagc aagaa 375

<210> 24560  
<211> 435  
<212> DNA  
<213> Glycine max

<400> 24560  
gccacagga gaaagatgtc caaaaaatga aatatttaaat tatataaaat caactccctc 60  
ttgttgtgtg taacccttgg ccacaagcct agctttgtaa ctttggatgg cgccattaac 120  
acaatgtttg atgtgataaa cccacctata accaattgaa acttagcttg gggaaaatca 180  
gttagatacg aagtatgatt tgcttcaaga gtatgtaatt catccttcac agcttttctt 240  
aatacagttt catacttaac agcttatgca tatgttttgg gttcagaaat ttttgaaatg 300  
gctaaggat atatttgaga tgactaggag acaaattgat ataggacaga acagtggata 360  
aagaatataa agcagtacct gaagtagaag aaaggaacct gctgagttga gaagattgca 420  
tgtagtgaaa aatga 435

<210> 24561  
<211> 369  
<212> DNA

<213> Glycine max

<400> 24561

agttttttcc ttctcgacac gtatactctg aaccacaaga gcaagagctc atgtttgatc 60  
atcacatggg tatagaatat aaaaaagtat tcacaaattt tattatatta tagtagattt 120  
caaatttaaa tttatctttt tttttctttc tctcttaatt gtatatattg ttatataatt 180  
tatcgataaa gtataatttc tctcatgcaa aacaaaattt tcttacgtac actaagtttg 240  
cggagttata taatatgatt tatttaccat taaattcaat ataaattggt tatcatatat 300  
acgtcagaaa tatttattta ttatgaatgt taatactact ataatttata tatattaaaa 360  
ttattctta 369

<210> 24562

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24562

nttctctctg ttgttctact ggggtttcca agagttatag ttatatgaga agaaattgaa 60  
gccttcattt tgtattgtct ttgtgcgatt cacttttctc tctccatgaa taatactttg 120  
caaatcccaa tggtaaagggt gtgcgcaact gaatcttgaa ccaagtatct caatttcattg 180  
atgatcgaac ggttaatgag tccgggatca tagatttact aggtagggtc tgagtctctg 240  
tggaanaaga gaaatctaca atgcgaacga catttctcta agctccaaca ttctttcgca 300  
atttccaacg gagaaaatgc tcagaaatta gtttccgacc aggtgctgag atatcacgac 360  
gatccaacga tcaaagaatc tgagatcatc atttctacta aaatagattt gagcgtat 418

<210> 24563

<211> 354

<212> DNA

<213> Glycine max

<400> 24563

gctttgtatt ttagectaga ggcagcgagg cacttgtcca ttaagaatga ataaaagtaa 60  
tgttcctttt gctttaatcc attctgaggt atggggggca tccccaaaat attctatctc 120  
tggtatcgc aggttagcga tatttggtga tgagtgcact cgaatgactt ggattaactt 180

gttgaacaa aaaaaatgac ccggtacaca tatttcaaca attccataca atgattcaga 240  
 ctcaatattc aaagaagatt acgatccttc actctgataa tgggtggggag tttgctaate 300  
 accaattcca tgagtatttc gaaaaacacc gacttattca cgaatccacg tgtc 354

<210> 24564  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 24564  
 cagggaggaa cctgcataga atcaaggcca gtggaattag agtgcgctac tgccagtctt 60  
 acttgcacga caagttcatc ataaaacata accaaggatc caagataaca taaatcccaa 120  
 cacttcacgc aatcagtgcc attactagca taatccggat ttctttacat tactattatt 180  
 ataaatagca gtatgatctc cattgagaca cactatatat gtggaatatt ccctcaaaaa 240  
 attaaattaa ccatgtgagt atattgtcac aacatgattg cagaggatgc aactaaaatc 300  
 acaaggaaat attgtcagta acctccttaa gtactcgcac ggagttcaag ttcaaccaca 360  
 taagatacaa attcgtacat ttcatataac ataaattcgt cgcaggtttc tatctataca 420  
 aacatgacca 430

<210> 24565  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 24565  
 ctctatactg cagctggcag ctttcagttt gcttgctgag cttctataga ggatggatca 60  
 ttgagcttca aagatgtcat tcaacggcga ttttacacca tggagatgta gcggaaggaa 120  
 aaggataaga ggtagtgga tacaccatcc actaggaat atgccaatga tgaaggagtc 180  
 ttcactctcc atatatgttg cctttgataa agaatctcga agaggatgct ttgatggaag 240  
 aaaagataga tagactgggt gagcatgata ttgaatgaat tatagactga gagaagtgca 300  
 actttgaatt gtggctcata tttatagact aagggtgcttc ct 342

<210> 24566  
 <211> 433



<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24566

tgtccaatcc tctaatagga tcatctccat tttatattat cactttcatc accatctcca 60  
 tcatcatcaa tgccttctc agattgtgca tcatcatcag gttccacgaa aattaaatta 120  
 tctagatcaa gagcttaaaa tagatatcaa agatgttata tcagaaatag ttaaaactta 180  
 aaataataca caagcacatt tttaaattga gaaagttcat aaattatacc ttctcttggt 240  
 gttattaaaa ttgcatttta tcttctcttt tgcattttcc atctcatata tgaaaagtat 300  
 tcagtaacaa gattgatcca actccaacat tgtanggtca gttgttgtgt tctgtaatag 360  
 actaatataa agtatgaact atgaactatg agtgtatcgt cattagtctg caaatagggtg 420  
 cactttaaat ata 433

<210> 24567  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<400> 24567  
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 atcacgatta tcatctccct ttccatcatt gggggtagca cttgggctgc cagatccctc 120  
 cacctttggg cgtattcttt gaaagattca tgcccccttt tgcacatgtt atgtagttgc 180  
 atcctatccg gagccatatc agaattgtac tgacacttcc taacgaaggc aaccattaag 240  
 tccttccaag aatggactcg ggaaggctcc aagttagtat accagggtgac agctgccccca 300  
 gtgagacttt cttggaaaaa atgtatcagc aggttcccat ctattgcgta tg 352

<210> 24568  
 <211> 151  
 <212> DNA  
 <213> Glycine max

<400> 24568  
 tgcattgaat tccttccagt attgtatcag acaggatatcc gaggttcact tcgcgatttt 60  
 ggacaagtct acatgaagcc ttggggacaa agttgaagct tagttcagct tatcatcctc 120

aaacagatgg tcagactgaa cgaaccattc a

151

<210> 24569  
<211> 348  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24569

agtttngnca tcacaatact cctgattgac gatgtctcca tatgttctta aaactggact 60  
gattcatttg cttacacagt tacatgggct tgcaggcgaa gacccggaca aacatttgag 120  
ggaatttcac attgtctgct ccaccatgaa acccccagat gtcgaagagg atcacatata 180  
tctgaaggct atgactcact cattagacgg agtggcgaa gactggctgt attaccttgc 240  
tccaaggctc atcacgagct gggatgaccg taagagagta ttgttataaa aaattttccc 300  
tgcttcagg accacatcca tcaagaagga tatcttacgt attagact 348

<210> 24570  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 24570

ctgcagattt ggtcttcgcc agtgaaagg tcaatttggg tccgaaaaga ggcaaatttg 60  
atcctctac taggacgact gagaaaactg gggcaaata agaggggtgag aaagagggag 120  
aaacccatgc tgtgactgcc attcctatac ggccaagttt cccaccaaac ccaacaatgt 180  
cattactcag ccaataacaa acctccttac ccaccgccc gttatccaca aaggccatcc 240  
ctaaatcaac cacaaagcct gtctaccgca cttccaatga cgaagaccac ctttagcaca 300  
aaccacaaaa caccaaccaa gaaatgatat ttgcagcgaa tagcctgtat gattcacccc 360  
aaattccggg gtcatatgct aacttgctcc cacatctact tgataatgca atgggatcca 420  
taacc 425

<210> 24571  
<211> 364  
<212> DNA  
<213> Glycine max

<400> 24571

tgtttcatgt tgctcattga ctccatattg ctgcaaagaa ggatgaaatg tgtatggtga 60  
 tctacagaat aacactgacc acagactctt gcatcaggtg cagatgcata tttctgattc 120  
 atgtgaagct gatttactag gatgaccatg gcatcaagtg tttcctcatg cttgtttatt 180  
 ttcaacacat gaagactaat ctgcgggccag cttatggact cctgtaaaga caataacatc 240  
 atttcttgaa ctgaattggtt gggagttgga agccatcttc tcaatcaaatt tcctagcttt 300  
 agcaggggtc atatcaccaa cagctccacc actggcagca tcaatcatac tcctatccat 360  
 gttg 364

<210> 24572  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 24572  
 tgctacacaa ataacctgtg attgtgtcat tctcctgtgt ttgtgtgtac gaactaagaa 60  
 gtaggaacca ttagcctacg tgacatctgg taaataacta gattgagata gtttggtgtg 120  
 gccatgacta tagttctaatt agcaaccatg atattaaaag tccctttatg tcaacctaaa 180  
 ttcagtttag ttaaaaaaaaaa ttcagttccc ttctcctaa tttttatctc atgtttccca 240  
 cttttttctc caatctctct tcattatctg attttatttc aatgattcaa ctctctccat 300  
 aacctgtcct gacatgttgg aattttcttt aacctagtta gattgaagac aacgaatata 360  
 aataatgagg cataatatct ttctaaata tagttcattc tataactcaa attaaaa 417

<210> 24573  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 24573  
 agtttgtgca tagttgtcat agacaaaggg atctaaagaa ttaataatca aatagtattg 60  
 atgaaaaaaaa tgtgcataaa tcaagtacaa acccttcaaa acaaagtaaa atcaaatagt 120  
 aattgtagct gaccatagaa ggagatgaat gaaacggata ggaaactaat gttcgaagct 180  
 aaatgtatga acaaaatcta aaacccttga aatataacgt gagagagaga gctgaatcga 240  
 atgaatcgtg acttttgaaa atcaagtcaa agtgaaaata aatagaagag ggtgattatt 300

ttgaactaag aaatcgagat ccattgtaaa accacatatt gagtcgactt gtggaatctg 360  
aatgc 365

<210> 24574  
<211> 426  
<212> DNA  
<213> Glycine max  
  
<400> 24574

caagctcctt caactgcaca aggcctctatt atttttgagt atccttgtgg aaccttcacc 60  
cgacgaagac actgacaaaa acttatcttc tccttcttgg acaaagtatg gcatgctgag 120  
ggcaagtaaa ttatcttacc atcacacctt ggatgcaact gcaatcttat acccatatca 180  
gctagatctt gactgggtatt gaatccatcc taagctttgt cttgaatgtt aaggaacatt 240  
ctaatacacac tgtcacaaac atttttctac acatgcataa catcaatact ctgtttaatg 300  
tctatatcac accagtactg aagatcaaag aaaatggacc tcttcttcca tatgcatctc 360  
tgacatttat gcttctttta gagcttccca aatacagtgt tcacagcgtg aaccgcgatg 420  
atatac 426

<210> 24575  
<211> 363  
<212> DNA  
<213> Glycine max  
  
<400> 24575

atcttcctta agaagattcc ttaagaagct agagcttagc tacacatacc tctctaatag 60  
ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120  
aagctcacc ccatgacaaa aaacatgaaa ataacagaaa aaagtcctta ttacaaagac 180  
aactcaaaat gccccgaaat acaaggctaa aacctatac tactagaatg gccaaaatac 240  
aaggcctaga cgaaggaata gcctatttta atatttaaaa agataagcgg gctcatactt 300  
agcccatggg ctcgaaatct accctaaggc tcatgagaac cctagggcct ttccttggat 360  
ctc 363

<210> 24576  
<211> 431

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24576

ntcaacaagt ttcttcacaa ataatcatca tatagttgaa acctagcaag actacccatc 60  
atatctccca aaaccccata cccacgaaaa tcaaaggaga aagaagtcca cccaaacctg 120  
aaatttcgaa gtccaacacg tagagacgtg cttcacgact ccgaaaatgt cctcctttcg 180  
cgatttgagg cagaaatggg caccaaaggt tgaagctttg ttgggcaaca atggtggagg 240  
aagaaaagaa gaagaaggct gcgtgagaga gagggagagc ttctgaaatt tcttttgggc 300  
tgagtgagga gagagagaga ggtgctcttt gggttttaaaa aggggttttct ctttctctat 360  
tattntattt aagctatgcc acatgtctcc atttgagtgg agcaaaaagg gccactctc 420  
tcttttgatt g 431

<210> 24577  
<211> 227  
<212> DNA  
<213> Glycine max

<400> 24577

ctatgagcca cggaacgacg gcaaaatgtc ttaaattggca tcagcagcgg tgccccgggac 60  
tagaggacta atgattacca caatctggat tcaccgttca ggcggtctta aatcaagatc 120  
aggagtcaag actccggatt cattaatcga gatctgactc aagcgagaca cacatgcac 180  
agctttgtca gatactgatc aggacatgta ttgttcgcaa cacctgt 227

<210> 24578  
<211> 375  
<212> DNA  
<213> Glycine max

<400> 24578

agcttgccct agttaagttt aggaaagtca ttcattaaat gacagtacat ttgtttcatg 60  
ttttgctggt ttacaaaaag agctaaaact actctgttgc acttcgtcta catatacctc 120  
aacattacta tgcttaataa aatttggtga tcttagtaaa acataaagca ctttctcaaa 180  
tattaagatc aaataacatt cagcgtatcc aagagatgca gccaaaataa ataatgagaa 240



<210> 24581  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24581

tatggatntg ttctacatga ttatTTTTat ttcatgaac actggttcat tttcttgctt 60  
 tctctgtcaa cgcttaaatt tttttgtgtt cctgagcctt ttctgacgtt gctttctctt 120  
 ggTTTTcttg cattttgggt tcagatatgt agcattgggt atctttgtga tcgacagcaa 180  
 caacgaagac aacaaatagt gtccgacatg aaaagaacag gtttgtgatg gttgagtatt 240  
 cttcttcttt tgcaagacaa aagccacata tcatagtatt cttcttctta tttgaccgtg 300  
 gttgagtttt ttttttttag gttcgttttc cctccctgtc tccttctgtg ttttcatttt 360  
 acctattttt acatttgtat gtgtttnttt tatttcgggt ttttgTTTTt tcaactgcatg 420  
 ttcattgctt cttcta 436

<210> 24582  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 24582

agtttcatac tacttgttgt aattgattac aatgaggcta taatcgatta aaatagaaag 60  
 tttttgcctt tgaagaaaat tctctaacta agaaactttt cttcacacaa accatgataa 120  
 tgcattgatg aatacaaata tcaaattgtac taagattgtaa caaccaagat aacaaccaat 180  
 acaaatgcc a tcaatggag ttggggatgt aaaaacaaaa acttcttcaa gctttagccc 240  
 ttaggttggt cagaagctag ctagttagtt aagttgaaca tccttttagat tgctagctgg 300  
 ttgaaatcaa gcttaacgag gtggatatag ataaataata ggaggaaaaa agtttttaaa 360  
 tataaaattc t 371

<210> 24583  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 24583

tcatgatgaa tcaagattga ttcaaagaag ttttgtctat tacaaagggtg atgacaaaaa 60  
 gcttcgtgat gatctcaaga atcaaagaat gagttcaaga tgttcaagat tgaatcaaga 120  
 acatttcaag gttcaagagg aaaattgatt tcaagaatca agattcaagg ttcaagcttc 180  
 caagaatcaa gatcaagatt caagactcaa gattcaagaa tcaagaaaag acttaatcaa 240  
 gataaatatg aaaaagtttt ttcaaaaact gagtagcaca tggatttttc tcaaacctg 300  
 tttaccaaag agtttttact ctctggtaat cgattaccag attattgtaa tggattacca 360  
 atagcaaaat ggatttgaaa aatttttcaa ctgaatttac aatgttccaa ttgatttcaa 420  
 aatgttgtaa tcga 434

<210> 24584  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 24584  
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 tcctaacatg attcaattca cacattgtct cgaatagcat attcagaaca tgcaatcaag 120  
 gcaaaaaagg aaatcaacac caacagagaa caaatcagtg gaaactctgc atgcttcttc 180  
 atgcctacac tacataaacc gcacaaaaga aaaacctaga aaaaaaatta gaaaatccta 240  
 acagtcactc attcacgatt gtgggggtct atttagcata aggtaacaca caactgcact 300  
 ataaaaagaa gcacgagaat tagaattgag taatagctat attgtatacc ttgtgataaa 360

<210> 24585  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 24585  
 tatctctatg gaaaaagggg tgaactcggc attggttggt cttgttttgc aaatgaatgt 60  
 gggaggttga catatgccca aacttaagtt tgccacattt atgatataag tttgtttcat 120  
 gagcaaaaca attggatctc tatttgtgtg ggtcaaggcg tcaagccatg acggatgcga 180  
 atgtttacca acatctgtcc acaaagcatt aatagtaaga agaaccctac tggatttaaa 240  
 agagttttaa tgttttatta cacattttct gtcttttctt gttagtagaa tttttgtcat 300



tatgaatatt ggccactgta caccaagctc ttctttcttt ttttttctcg atcatgatca 360  
 aggttttttt ataaagaaaa attattttat tgtaagccat ctacgtatta caaattctcg 420  
 catatagaat aagtg 435

<210> 24586  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 24586  
 agcttggttt tgggcaatag caccacact gacgtccca aggtctcctg acccccgcga 60  
 catatctcca ggtaccactc tgtggtcaac gaataaaagc aggaagtttc acccctctat 120  
 acttctcat ctcaagcttg taggattatg gggtagccat cacatgtggt actaggtggc 180  
 agtcgggcga tgggtgcacaa caagttttcc acatccacaa agcgcgcata aaccacccat 240  
 cccctgttgc ccacctcaa ctgagctcac gtactccac gtageccata acctcgtttc 300  
 tctcaacacc gggtagccat caatctccc aagcttcccc aacatcaaag taaatcaaca 360  
 ttcaaacagc acaa 374

<210> 24587  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 24587  
 gcttattaag aggttctctc cagaagcttc attaagatgt ttttagcaca ctccagataa 60  
 cttctaaaag atcccaacgg tgagatcatg aaaacgtgtc ttgtgaagtg gtagaccaa 120  
 tttcgagaag atccagcggg taacgaaggc tgggcatcgt ttttaccgag gtagcttcat 180  
 gtagctttct ctagaagctt cattaagagg cttctcttag aagcttctc gtggcttctt 240  
 tgagaagctt tctcaagagg cttctttgag aagctagatc cttatctatc cacaccctc 300  
 tattaactaa attaacttcc ttaaaaataa ttacagatga aaataacgca acaataatc 360  
 aaacatcaaa cataattact aataatatat agatatatat atcaggggtgt tacaccgtgt 420  
 ggtgttagct ggaatat 437

<210> 24588

<211> 419  
 <212> DNA  
 <213> Glycine max

<400> 24588

gaattcgagc tcggtgatcg tcgatactct acaggcgagc aggcagcttt ccagtttaag 60  
 agcgtcacga ctactcttca gatgtctgcg gatactataa gatacaaaat ccacggtacc 120  
 agcagaaaacg actccaagcc agtgacaatt gccgcataag cctaattcta ccatccaatc 180  
 ggctggataa tgggaattctg cgacacagtc gcgcacaggc atattggatg tgatcgccgt 240  
 gaataacatt gtcgacttac ataaggaggt gtgatagcaa gtgagcatga ccctcgccga 300  
 caacctgtac tctgttccga cgacagcgat gtcctcgaa gccacgcaca gcgccttcac 360  
 cagcgtgatg acattgcac cgcacctga cgacccgatg gaatcgccgg cgcaagaac 419

<210> 24589  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 24589

tgggctgctc ctggtgagca atatgtcttt gaggtttttg aaacacatgt tcatgggagc 60  
 tgcacttgca aaaaaccac aattgttgat gcacgatata tgaccttcat gatgagctcg 120  
 gcacgcaatc gtgtcatggg acatatattc acaactgacc tgcacagacg acattcaaat 180  
 atacaacata taacatcgcg ctttactga tatgcagaat aactcaatgc ctactatga 240  
 atataggcca atttgaggaa tgcaaccgga taacacactt tgaccactgc aacatattga 300  
 tgatactcgc ttatgagcag acccatgcaa ttatacaaca aatgacggag aggtggtgca 360  
 ttgctccact ttatgaatat gccaaagtgc ac 392

<210> 24590  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 24590

agctttcaac aaatgtcttc acaaataatc atcacacagc agaaaactaa caaaactacc 60  
 catcatatct cccaaaaccc catacccacg aaaatcaaag gggaaagaag tccacccaaa 120

cctgaaattt cgaagtccca ctctagcca tgcacttcac gaccccgaaa atgccctcct 180  
 ttcgcgattt ggggcagaaa tgatggccaa aggttgaagc tttgcttgga gcttcaatgg 240  
 aaaatgaaga agaagaaaat ggcaacgtga gggagagaga gagctgtctg aaaagctttt 300  
 tggctctaaa taaaagggtt ttctcttttt ctattatttt atttaagcaa tgccacatgt 360  
 ctacatttga g 371

<210> 24591  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24591

ntcaacatca ggggtggggc agcagggaca tgaatgtatc cattctattc caattctctc 60  
 cttttgtctt ttattagta ttttttttaa attgaactaa cattctatgc tcttaagttt 120  
 ggcttctttt catacttgta tataaatgta aggtgtccct ttcatacccc cttttgtggt 180  
 gcttgacat gcttgtgagt tttttgtttt ccttttctct ttttgataat ttgattggac 240  
 atgcttgtga gttttttgtt ttccttttct ctttttgata atttgattga tgtgtgagca 300  
 atgatgggta ggaggggaga agaagtgtct gaattctgag ctatggcatg catgcacggg 360  
 ccccttggtg tccctaccaa ctgcagggac tcatgtgggt tacttcctc aaggtcataa 420  
 tga 423

<210> 24592  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 24592

agttttagg ttatagtac gatgattggg ctgaaatga agatgatcaa aaaagtatta 60  
 gtggatttgt gtttttcatg gggaatacga ctttacttg gatgtaaaaa agtactcgat 120  
 agtcactctt ttgacttggt aggcagaata cgtagcagct acttcatgctg tttgtcctgt 180  
 agtctggctt aggaatttgt taaaagagtt ggacatgtca caagacgagc agaccaagac 240  
 ctttgtggat aataagtcaa ccattgctct agtaaagaac ccagtgttcc atgatcgaag 300  
 caaacatatt gacactcgtt accactacat aagatagtgc atagcaagaa aggatgtaca 360

<210> 24593  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24593

agttggatta tggggcaccc gtcatatgtg ttactaggtg gcgattgggc gatggcgcaa 60  
 atcaactctc ccacttccac aaatcaaaca tgaaccaccc atccccagtt gcccaccttc 120  
 aactgagctc acgtactcct acgtagccct tctcctcgtt cctctcagca cctgggtcccc 180  
 atcaaccctt ccaagcttcc acaatatcca agcaattcaa tttccaaaca tcatgaacta 240  
 ccctaaacca agaaaatagg gcagaggcag aaaactctgc ccaaaacaca ttcacataat 300  
 acagctttcc ttactcatat acccccgtaa cattctcttc gttccgattc gttaaccggt 360  
 ggatcgacat gaaaatntta ctagagggtc ctagtacata aatctac 407

<210> 24594  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 24594

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 ttaatttttt tttccagtac ggctatggaa ctcaatcgtt gacaacagag aagagaaaaa 120  
 caatgagtea gcattgcatt ggtacctttt ctctctatct ttctcctggc tctcatcacg 180  
 caggctcagt aaagttggcg ggaccaggct ttgtacacaa accgttcctt caattgtgtt 240  
 tccaattcca gaaggttaatt taacgcaact cacatcacca gttttgaggt cataccaaca 300  
 gagcttgcta cggttgagtt cgaacaaaac cctgtcccca tcatccatag ccaaggcct 360  
 cacatatt 368

<210> 24595  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24595

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aatgaagacg aacactagtg agaattattg tcactcttat taaatatata gttataatta 120  
tttaaaaaaa aatatagttt atatttattt tattgggtgg tgatgagtgg ttaggaaatg 180  
tctaaaatgt ttgaaaatgt tagtagtaat ttgttattaa tatttatggg gatgagcaat 240  
gggagtcaaa agatggagca gatgatgatg cgatgtgggtg agtgaattgc agagtcggca 300  
atgggtatgtg tatgagcgta gtcacacttg aattgaattg aagctctgtt ccttcatgtg 360  
acgacaatct ccaacgtcgt aagtcgtaac actacaatac gtgttgtcat cgtattgggt 420  
ttagtg 426

<210> 24596  
<211> 358  
<212> DNA  
<213> Glycine max

<400> 24596

tgtttaatag tgaatcactt attgtgagga caagttgcta tgacattaaa ttttaattgcc 60  
attcttgttg catatttcta accatgcttt tgattttgtt gagctaaaaa gttgaatgtg 120  
ggcaccacca tacttagttg attgaagcac atgaacaaaa aaattgttga atgaagggga 180  
atgcaagaag agtgtgtatg taacttgtct ttgtgtatac ttagtcttta gttttaattt 240  
ttcttttgtt tttgagtcct tacttttttt aagtagttct aactgtttta gtagttttag 300  
ttagtcttgc ttgaggacaa gcaaggttct aagtttggag tgttgataaa tgtcaaat 358

<210> 24597  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 24597

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ggcacttctc tctctttcga atttgcttag gaaaattgtt tccgtgaaga aaatccaagc 120  
cgtggcgctt ccgtaacgtt tccgtgagtg atttcgcgaa ggttttcaac cgttcttcga 180  
cgttcttcat tcgatcttca tcattcttca gtctttaacg ggtaagtacc tcaaaccaag 240  
cttttcaatt cattctatgt acctgtgggtg gtccacaata ggtttcatgt attttcattc 300

tcgttttcat atactttgcg taccctcttt tgacgtgctt aagccgttat atttaattca 360  
 tttctcgctt aacctacaaa taaactaaat ttccatcgat cgtttg 406

<210> 24598  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<400> 24598

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 tcaagataat gcgagtatat acatatattt aatagtaaca taatttattg attgtcacat 120  
 aatgaatgaa agaagaaaat gaatttagca aattgacatt ggtatagctt tcctccatta 180  
 gataacgtaa ttctggagta ctaccgttgg aaggataagt agatcaacat cttaatcata 240  
 atatctcaac tgtgttgaat atattaataa tactacttat ggaaagtact atgtggctat 300  
 aatacaatgg ttagatggat ttctaaataa ttttatgcc a tgatgaaa 348

<210> 24599  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24599

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 cgatgattat ataatgcaga attttgagaa tattgctgta tgattgtgct aatcctaatt 180  
 gtattgagaa tattgctaca tgattttgct gatcttaatt gattctatct gtgttaattc 240  
 tgattgtatg tattaattct tattgcattt taattctatc ttgtatcttg atctcttgat 300  
 tattgcgatc acttattttt aggatagata gttgtatcat atatgtcagg agaagctata 360  
 ggagaaatct tacttaggcg gttggatgac cttgcatata tatgtatcga ttgtttctaa 420  
 tacatgcaga gcaacatatt ccat 444

<210> 24600  
 <211> 364  
 <212> DNA

<213> Glycine max

<400> 24600

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gcttagattc atctgtgcat tatctttgtt ctagatagat ttaagggtat tatgaatacc 180  
gatagtgttt aaccctttca actaagcccc ccatgcccatt ttatagacaa aaagggggaa 240  
gaggatgccg ccagcctttg ccaggcgagc tagaagctat ctccagaagc aatctactca 300  
cccaagcgag ctggatgctt catgttgaag cttgataatg ggctagatgg gcccattggc 360  
gagg 364

<210> 24601

<211> 291

<212> DNA

<213> Glycine max

<400> 24601

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attggaaggg tttttgacat gggcggaaaa tctcggttgg agtggcgaat attcggaagt 180  
gttgtgaggg gtttgatggg atttatgcca agtaggagct gacggactag cgagggtatc 240  
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<210> 24602

<211> 357

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24602

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agtctatcat atgctgacaa tagccgagaa gcccatgaat ctcttcgggg gcggagtagg 180  
tgtctgccat cgccttggcc ttggctaaca atcggggaag ttcttgactc ccgttcaagg 240  
taagagcaaa ccgatccatc cacatggttg cctcttggtg taaagagtcg atcacccttc 300

ctctagcctc tttttccgca tataacttggg cataactcatc cgcgattcta tgctcgt 357

<210> 24603  
<211> 433  
<212> DNA  
<213> Glycine max

<400> 24603

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aatgggaaca tgccagtttc ggccgaaaca aaacgtctgt tgagctcgca cgaaaaaacc 180  
tagccggcct acattgttaa ttttttatgc aacacaaaa caagaaaact tccactgccg 240  
taaaaaatac aatcataggc cagcgagcgt ttttaaaaa aaaattgtcg gggctatttc 300  
atgaccgatg tcgactattg agtttttcta ttcaatccct gaatgagatt tgcgatgtgt 360  
cgattaggaa atgttcgatc ggcatcatcc ggtgatgctt ccattttaga cctcgatcgg 420  
tcattctctcc acg 433

<210> 24604  
<211> 357  
<212> DNA  
<213> Glycine max

<400> 24604

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aagtttagac tctcttctct ttctctttta ttttgcgtta cttacaaatc ccggtcagac 180  
actttggttt atcaataaaa gttcattctc tatttgatta atggaaagct tagtccgcat 240  
cgttgttttc ccttgaggat caagcacagt tctctttgag ggtctattat taccgctaga 300  
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<210> 24605  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations



<400> 24605

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ttgatactcc tattttttaa aatctacaat ttgggtctct ctattttaaa atacaaacat 180  
tttgcccta tatttttagaa aattcataat tntgattctc atattataga aaattcacaa 240  
ttttggttta atatataatt tctcctatgt ttcatttctt ttatttttta ctttgtagtt 300  
aattaaatca tttcttgatg atatcttaaa tgaatatgta gatttaggat ttaattagac 360  
caacacataa gatataaaa 379

<210> 24606

<211> 371

<212> DNA

<213> Glycine max

<400> 24606

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gaatctctag taatatcccg cttaaactgag taaacttcta atttcataca cagatgactc 120  
tcccacttaa gaaaaacttc attttagaaa gatctacagc tatatcgcc tgggatatca 180  
catgtcctag gaaactaagt ttccttaact aaaactcgca cctggaatct tagcttaaag 240  
ttgtcagtc ttaagggttt gcagcacaat cctcaagtgc ttttcatgct cctctctagt 300  
cttggagtag accagaatat catctatgaa ttctaccaca aaattatcta gataagggcg 360  
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<210> 24607

<211> 423

<212> DNA

<213> Glycine max

<400> 24607

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tgtaacaaat cttcagactt ggagttataa catgcagtc ttttcaacc ttaccacca 120  
ctctgtcgtc atggtaagac ttatgaagcc caataggttt tgccttttca atgtactctg 180  
aacaaaactc aatggctttt ttttcaatgt acctttcaac aatagaagct tccggacgat 240

gtagattctt ggtataccct ttttaagatct tcatgtatcg ctcaactggg tacatccgcc 300  
gcaaataaat aggaccccaa catttgattt ctgagaccag atgaacaatt aagtgaacca 360  
tgatgtcaaa gaaagtagga ggaaaatata tctccaattg gcataatgta attgcagcct 420  
cat 423

<210> 24608  
<211> 374  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 24608

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caacaaagta gttttatctc aacctaatct gttgcagcac tccattttta tatattacaa 180  
ttattcatgt ttggcattta catgtaggtc cctgcaacta ttgttccacc aatagcaagg 240  
aataagctag ccataacaag agccataaaa aggaaggttg ctgataaaga tgatgcagaa 300  
aactgaagaa gcattttttg ttgcattntg aaggttgctg aaggttgctg aagaccatt 360  
ttttgttgcg catt 374

<210> 24609  
<211> 435  
<212> DNA  
<213> Glycine max  
<400> 24609

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ctaggaata agccaaggaa gaaggagctt caccactaag aattgccttg gataagaagc 180  
ttgaagagga tgctttaatg gaggaaaaga aagagagaag gggggagcac gaaattgaag 240  
gaataaaaga gggaaagaag tggaactttg aagtgtatct cataagactt tcattcatca 300  
aagttacaac aagtgttaca catgcttcta tttatagact aggtagcttc cttgagaagc 360  
tttcttaaga aaacttcctt gagaagtttc tttgagataa cttccttgag aagctagagt 420  
ttatctacac acacc 435

<210> 24610  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24610

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 aaccaccatt aaaggacctc attgaagctc aaagatccaa cctccataga agctccacaa 180  
 gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttaaacc 240  
 tccattaatt ttttttcttt accttctctt ccattgggtgt ttcttcattn ttctccatgt 300  
 atctcctcac atgtcttggt ctaaagtgtg ttaacatgat tctttanagt ttccacctat 360  
 t 361

<210> 24611  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 24611

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 ccaacatatt tacctattgc tgtcaatttt acttacttgc atttttattg tttttagcct 180  
 atacttagtt taatcctggt ctaaatacct aattatcaat gtttctttca acaatgcctt 240  
 atttttgaat ttaacccggg cttagactcg ttccctgagt ttgatactcg gattcatcca 300  
 ttttaatttt aaatacttga cgatccagtg cgctttccag aaaaccggat ttcccttgaa 360  
 catatttgta caaagaataa gtggaccaa aagtaactgt agggaaatcc aac 413

<210> 24612  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 24612

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 ccacactagg tgtagggagt ttccactcta aacctcacga atcatgtgat gtgggactgt 180  
 tttgggatca tatgggtggt tggaacata aaaatgctat gggtttcatg ctatgttgct 240  
 aaaaatgtta aaaacgcgtg ttttttttagc tattgttgag cagagatggt ttgattttta 300  
 gaaaattaca ggctacatat tttcaaaagg ttagacaatt cctaagggtt ttggagttcc 360  
 tagaatc 367

<210> 24613  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24613

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 gccaaatatt atcctgtagt acacacataa caaattccag gtttgttggt ttaccttaaa 120  
 atacttttca tttgtcaaag gggtagaaaa ttaattcaaa gaagcaaaat gcttaagatg 180  
 caaagaagaa attgatatgc atcataaaac aatttaagat atatctctgc aaacatgact 240  
 cagatcaacc atttattcta taacaagaag attcaggaag ccaaataaaa ttgaatagac 300  
 taattttaac caactagata caataggttg tcagtttaga agccaaataa aattgaattt 360  
 tttttataag caaagtaatt tatggatata agaatgcttg caatgagaac aagagatgcc 420  
 caaaacaata c 431

<210> 24614  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<400> 24614

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 acaagggaac ttggttggtg ccctatatta catgggaaac actgtggttg ccatggacac 180  
 tctaaaaaga ctctatgtgt tacattttat ccccttatg gaaatacact ttgcagcttc 240

aatcatgaca agatcaactt tcggacaact tgatgaaaat taacacaaga attgcagaat 300  
caaagattgg ctaaagatgg gaagaaattt tgggttatgg ccctctat 348

<210>	24615
<211>	171
<212>	DNA
<213>	Glycine max

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taaagtgccta gaaaaggcat tcttatacta agtagttgga cttggagcct ataatttcat	120
gtttactttt atctgctctc tgacatcatt gagggagcct cccccccccc c	171

atctttctat	caatgtgatt	aacaaccaca	atttaattaa	ttaattaatt	aacataacga	60
aatcagagcc	aggataccta	agattgattt	gattcgtcga	ttaaatagact	agattgttca	120
attcaaaaag	gaatttacta	ctactactac	tactacagaa	cgtatgaact	tgaattgcta	180
gtacgatcct	gaacgatgag	aaataaatga	taataagaaa	gaaagtacct	tcggatcttg	240
ttgccctggc	cgacctggta	catgccccaa	gagaaagcgc	cgaatgtggg	gaggaagatg	300
gcaacggcgc	tggggccctt	gttcgggatg	cgccgggcga	accggaccgg	agcgaaccgg	360
c						361

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gtgcctttaa ggcttgtagc tcatcacttt cttcttatgc tttaacctca ttgtctctca    60
cagtcttttag atttgggagc caatccaatc cttgtgtccg gactctcagc cacttatgat   120
agccgcgcgat gatcccattha ctgcttcccc taagctctctt gtccttttctt cacgccgcgat   180
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cccatgcctt gcgaactcct tggagtaccc tcgcgttggt gtcactgaaa ccccggtgca 240  
 tgaaagacgt gatgctttcg tctgatggca ctctctcat ggggtagcca agctgtctta 300  
 tggcgaggac gggattataa ttaatgcaac cccttgttcc catcaaggga acatttggac 360  
 atccttcgca tgaagataga atcctgattc ttccttcctt cttagcgaggg aaccaattaa 420  
 caga 424

<210> 24618  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<400> 24618  
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 gagcaccttg tctgtatcaa acgactttca caacctttgt gtgatgacct ccctggatag 180  
 atggatgggt tcttcctttt cgtcatacaca cctggtgttt caaacgacaa ttcgagataa 240  
 ttcacctttg ccagaacta tctagtggac gtagctccca tttacacac tcaaatacaag 300  
 tgatacttga gcctaaattg aatt 324

<210> 24619  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 24619  
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 attacagaac agaatcggac atcagagtaa aaagttaatg tcgtttgaat tatgtcagag 180  
 cttcgggtatt ccatttcgag cgtctcgata tattacggga cttagtcaga catccgagta 240  
 aaaagttact gtcgtttgaa ttttctcaga gtttcgataa tcaatttcga gtgtctcaat 300  
 atattacgag actcagtcag acaaccgagt aaaaagttat tgctggttga attatctcag 360  
 agcttcggta ttccatttcg agcgtctcga tatactacgg gactcaatca gacatccgag 420  
 taaaatg 427

<210> 24620  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24620

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 ttgggcctta gatgctaagg gaggaaaaac agaagcaact aaataattga caatgttagc 180  
 aaaccagga gtagaaagag aatcagaaat actatacaat atatataaat gatcatccgg 240  
 aaaatcatcc cgaatgggtg agtcctcatc agacacatgt tcggtccgac tcanatgatc 300  
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 gag 363

<210> 24621  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <400> 24621

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 tctccctttt tcttccttca atttcgtgct cccccctctc tctttcttcc cctctttctt 180  
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 tcttcttcc atggcttatt ccctagtga tggegcctcc tctctctct tctcctttgt 300  
 cttccgctac atctccatgg tggaaaatca ccattaaagg acctcaatga tgctcaaaga 360  
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 ggaattatta ctgttgtgtc ttcaaagt 448

<210> 24622  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<400> 24622

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cgaactaccg gacacggagt gcggttaattt agttttctta atatgttgta attgtaatgt 120

tggtcggtta ggctaagttc aacaagaaac atctgagaat gaagtttaat ttgaattacg 180

ccaaactcgc aagacatcgg ggtttgggtat ttgtgccttc agcatagaac acagaaataa 240

tttcaaatag agaataacca taaattaaag gagtttgata caatttacac aagttttata 300

cacaaaagtt agtagtattc atcgactaac aatgacccat ggaaaaat 348

<210> 24623

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24623

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tggtataaca cttcatctgc cacccaattt ccaatacctg aatatagct atgcaaagat 180

tgaaatttca gatcttttta taacggaatg taagcctgcg cgcgggtcaag tacttagaat 240

gccaaagaaa agaaaattca agtatataga aattgacaca gcacaattca ttaaattgaa 300

gaaaaagttt atgtccctta ttctgcacaa gtagaggat tggaagaaa aaaaataaat 360

aatgatcagg gagcctactc gttaactctt cacagccgat gttcatcatg gtcgtgttca 420

aaca 424

<210> 24624

<211> 360

<212> DNA

<213> Glycine max

<400> 24624

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tggtatggaca ggttcacctt tactttgaat gggagtcaag agcttccccg actgctagcc 180

aaggccaagg caatgggaga tgagaactcg actcccaaag aagttcacag gtcctcaat 240



tattgccaac aaatgattat ctgatggccc acataattaa gagctactat ggcaattgta 300  
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<210> 24625  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<400> 24625  
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 agtgtatcaa tatattacgc gactcaggca gacaaccgag tagaaagtga ttgtcgtttg 300  
 aattatctca gagcttccgt attccattac tagcgtctcg atatactaca ggactcaatc 360

<210> 24626  
 <211> 405  
 <212> DNA  
 <213> Glycine max

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 ttattcgttt gggatatgtt ccatgttttg aactgtagtt ttaaaggaaa aaaaaaaaaa 180  
 gaaagaaaga agagaaggcc aatttaatag tttaaaaata aaagataaaa atcttaataa 240  
 tcatataatt ctcttaattt taaaacaaaa acttgctta ctcttcctat ctttttaaaa 300  
 ttttacttcc aagcaaaagg gttaaactat atattctttg gctatctctt tctctacccc 360  
 aaaaactctg gatataaaat aattgcaaaa atagttctgt tgaca 405

<210> 24627  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 24627

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gttttactaa agcgaaacaa tacccaatgc gaatcaacac tccgacatct atcatgggtg 180  
gaatggatga atgcatgaag aaatgcatat gacacagatg caatttatga atacaggagc 240  
ccgggaaatt gtccctttct tagatacaac gtttgtgcag catggcgccc tatgtatgta 300  
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<210> 24628  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 24628  
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catgggtaatt gctcacatct ttgagagttg ggataacaca agcataatta aacaaatatt 180  
ttaagtattt gattatatac accaatatta ctttattata agcataaaga gtgattacta 240  
taccaattaa agaaagtaaa atatcgatca tgctcaaagg aattaagaaa tttaagaggt 300  
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ccttcacatt tcttctgaat aaagcatcac acaagttg 398

<210> 24629  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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taatttttaa ttctcttgca tgaagttaat aactgtggga cctgctgctg ttcttgtagc 180  
gctactttaa ataatcacct ctatgttcat gtgtggcatt ctttccatgg tatggtgctg 240

actagtcaga tatggtcttg aataaaccta aagagtcaca aatgtcttat aatggacacc 300  
 aaacattttt gtccattggg aatgccgcta tttggagcca aattgtctga tggagctttt 360  
 ctctgttctt ttctatcata gcaatcaact gctgagctat gcttttgcatt cattccctat 420  
 acatatttgt 430

<210> 24630  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 24630

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 atgtggcaat catgagactt taagcctact aatttaagat ctttcaactg cacttggctc 120  
 ttaatatattg aagagtatcc ttgtgggact ttgacctgtc gtatacactg aaaaaaactg 180  
 atcttctcct ttctgggcaa agtatgacaa gctggaggca agtatatttt ttaccatcag 240  
 accttagatg taactgcgat cgtatatcca tctcagctag atcttgacaa gtattcaaat 300  
 catctttcgt cttgccttga atgttaagat gcgtcccaat gacactatca catatatattt 360  
 tctccacatg catatcatta atacaatgtc taacatctag atc 403

<210> 24631  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 24631

aataatatat aacaataaat atattttcca tgctgaacat aaaattaaac aatatttact 60  
 acttactata taatgatgtc tcaacctacc cttttgcggg cgagcgaggc gaggtctttt 120  
 tgagcctttt ccaaagagaa aaatgtgcgg agtcgccacc aacgcttatt tgtggaaaac 180  
 gttcgataaa ctgaaggaaa ccggtcataa acaatatcc aagttcgga gtcgtatata 240  
 cgtttgagga atgtagtagc atctttcacg tttgctcaaa ggacaccagc cttatatatta 300  
 gaactgtgtg aaa 313

<210> 24632  
 <211> 391  
 <212> DNA

<213> Glycine max

<400> 24632

agtttttagta gccactcgc taagcacaaa tcttacgcta agcgccaagt cttcacgcgc 60  
taagtggggcc cttgcttgcg ctaagegctt aaaccctga ctagtggctg gatggtagcg 120  
ctaagegcgc ttcactgtgc taagccaaa tacctctcag gattttaatt tctcgtattg 180  
ggcttagcga ggtgatgcgc taagcgcaat tccctctctg ttttgaaatt ctttgaata 240  
gcgctaagcg ctagcaacgc gctaagcgcc agccatcact gcattgagga gcatgtttat 300  
gcgctaagcc ccacctttgg tggctaagca caaattgcag gaccaatttg agctgcagga 360  
agcgctaagt gcatatcttc acgctaagcc t 391

<210> 24633

<211> 233

<212> DNA

<213> Glycine max

<400> 24633

actcaagctt gtagaacaat aaatcccaac acaccacatc actggttgtc tcttaatctg 60  
tttgaaaaag agtattcctt cttctccctt cttgcacgt caataacctc attgaccacc 120  
aaggctactat gaaaaagata cctatctttc aagaagggtgt tttgcttttg atcaataact 180  
ccatttaata ctttcatcaa cctattggca agtaattttg ccaatatttt gta 233

<210> 24634

<211> 396

<212> DNA

<213> Glycine max

<400> 24634

agttttgagc caataccaac gaccataact ttttactcgg atgtctgatt gaggctcgta 60  
atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaatacaaa cgatactgac 120  
tttttactcg gatgtctgat tgagtcccg t aacatatcga gacgctcgaa attgaatctt 180  
gaacttctga gctaattcaa acgacaataa cgtttttctc ggatgtctga ctgagtcccg 240  
taacatattg agacgctcga aattgaatgt tgaacctctg agctaattaa aacgacatta 300  
actttttact cagatgtctg attgagtccc gtaacttctc gagacgctcg aaattgaacg 360

ttgaagctct gagccaatac aaacgaccat aacttt

396

<210> 24635  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 24635

atttaaatta tgtaagttaa ttttaacatg taaattatct ttattctaata tatataaatt 60  
aaaaaattaa tatttatggt tttagaaaac ttacatgtta atattttcat ttttaactata 120  
aaaaagttat ctattgaaga aaattacatt aattaatatg taaattatct tatgtaattt 180  
acaagagcca tgtaaattta tttttatata taaataatac aaattcttat ttttaattata 240  
aaaaataata aattttcaat ttcttatatt atttaaatgt tattttaatt tacttaattc 300  
gtataactta cataaaataa ttttattaaa taatctatat gttagtttat gtagtttttt 360  
taacatcata ataaaataag aacaaattgt tatata 396

<210> 24636  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 24636

caccaggtcg aggcaatata ctatcccat tctgtcttat aaccttcac ttcattggtg 60  
tgctttcaga aacactagaa gaggcagtag catgaagtac tcggtaactg tcttgattag 120  
atgaagttct aggaatggat cgagctgaac cataattact tctgtcctgg tgttgagaag 180  
agttccttct gtcaaactct tttggacct tttcaacct tgtgagcaca gaaatatctg 240  
atccactctc agatcctgga tggcccaaaa tgcctttcaa ttccatatag cctgttgaat 300  
aattgggtag acccacaaca tttggaaagg caggcttct gagattcacc ctatctctca 360  
taaactcaag agcaaattcc tcaccagtct gtatggagta attaagtaca ggtttat 417

<210> 24637  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 24637

tgttttatac ccattatcac atctacagga ccaaggctct tcatatcaaa atttctagat 60  
 aagaaagact tcgcatcatc ttcgaaactac atatgatgat ccagtatcgg tatgtcatgc 120  
 acatactaac atgacacgac gcattcatta tcatcatggt gtgtcacata cacacattta 180  
 tcagtgtgat tgatttgaaa accatacgag agaagaactt gatcaaattg ttctgccact 240  
 gctttgaagc ttgattcaaa ctatgcatag attgaacaaa tt 282

<210> 24638  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 24638

tcttgcgtag ccgctcttgg tgctcagttt atcccttaaa catatccctc ttattactag 60  
 ctattttgaa ttcttttagtt cctgaatgta caaccttcaa attgtggctc gttcccctct 120  
 ttcttttctg caaaaaagac aatcaaagtc tgtcaaaaca tggatgaagt cctaagaaaa 180  
 tcaatatcac agaaaacatg gatgaaatca caattaaaaa gcacaactac ctatctttca 240  
 gagtcctttg gttaatttgg cttgtctcct tatgtggcgg ggttctgatt aataatctta 300  
 tacttttgcc ttccaaaaaa aacttatcac taatcctctt ttcattaatc caattttgta 360  
 tgtcattgta taaaagatca tgggttctac acctgcctcc actactcc 408

<210> 24639  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 24639

agtttgatcc ttgagatata tatatagaga gagaatcttc tttcaccaat taatgatgcc 60  
 atgccaacac gtccaaactt ttttgggact aactgtaac ggtatgtttt ctatatacaa 120  
 ttacaatgta ttcccagcta gctaggatat gtctgcaagt tctttaatat tttatgttta 180  
 ctttttcaag ttggtttttg taaacaaaat ctgagatcaa aatcaaattg aactgcctt 240  
 atatcggtgt tcttaccttt ggtgttgctg ttgaaacctt aaaaaaaatc caaattttca 300  
 tttcctaatt tgtgaaagaa ttgaagcact tatttgcttc cataatatcc gtcatgatca 360  
 attattcttt agaaccatta aatact 386

<210> 24640  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 24640

tgcattgattt acatctccct ctttctcatt caaatatttc ttgatatcat caaaatcttc 60  
 atgatttaca ttctccact ttttgatgat gacaaccacc tgtagggttac gagcaacaac 120  
 aaagaaaata tctatttgca tatagtttac tcccccttgg ttttacaatg attgcttata 180  
 tgtgacaatt gaagattcca tattcttcat atataaaaag ttgtctcata aaacaataga 240  
 taatctttct tactatttta tcttttatct ttctctcccc cttggtcaac atcaaaaaca 300  
 aatcatgaat agagaggaga aagatgttac cacttggtgc aatgtatgag aataagtgat 360  
 accaaaaggc attaaaacaa tcattcaata ttaatcaagc aaaaacaagt acaataacac 420  
 atcaa 425

<210> 24641  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24641

agcttcatct tcttcaccac acaaccacaa ccacgacctt cacctccacc acactttcca 60  
 ttactcttac ctcttctat ctttgaggag cctgaaatgg cggaagaaga acatcctaaa 120  
 aggacacttg gatactatat tgcacatggt gtgcaaaggc acttcatatt ggaatgtgtt 180  
 attttggcta ttaaagggtg tagtgtcaat ctataattag gattgctccc ttcaattggt 240  
 cttagacat ctctcaattt catgtaaaaa aacttaattg accggattgg gtaatgctca 300  
 ccactactta ctaatatatt cacacagaaa aaccactact tattaatatt tgaaaatggt 360  
 taactatata ttntcattca atat 384

<210> 24642  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 24642

tgctgagttg ttttcttagc cctattctct ttttgtcttt gcttcttcct taaggcattg 60  
 tttcttctac aagttctttg aatctcttga tccaaagggg ctagatcttc ttaagaaact 120  
 ctacctcaca tacatggaac aaagcatcta aagaacatgt tagcaaagta ctcaagagta 180  
 atacaaaaac agaattttaa agcaaagaat tgaagaataa tgaatcattg catagaatat 240  
 gaaattagca taagttacct aatacgagaa acaagtcccc gacaacgatg ccgaaaaact 300  
 tattacatca ttgacaaaag taccaattag tgtagtattt tcaatagtaa gtagaaagac 360  
 tgtctcctca aggacttggt tgtactaagc ttttttgtgt aaactcaaca actaagcaat 420  
 g 421

<210> 24643  
 <211> 235  
 <212> DNA  
 <213> Glycine max

<400> 24643  
 tgcacgcagt ttagatataa tggagtttat acaggcaacg cgatattgaa cctaattcttt 60  
 ggctactttg gacattcata agtccatgc caattaaaat aaatgagtag tatcactatt 120  
 ttagcaaaag cgaaatactc gaaactagaa tacttattca tggattaatt caagatatga 180  
 taaataaagg agtgtgggat tggataaata gctaataattt attttaaaac cataa 235

<210> 24644  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 24644  
 agtcttaagt ttgttatgaa tggctgaaa cataagcaaa atttggctct caatggagtt 60  
 aagattgtat agtggtcgta tgtgatagtt aatgcagccc aaaccctttt caattagata 120  
 ttgagcaact cttgatggac taaatttttc tacacctacg gtgattccgg gaatgaaacg 180  
 gagctatgat gtcaatcata gacaaacggt atgtcttaat caaaatttaa gttagccttt 240  
 ttctccttct catcatgaac taattgatgt ggaacaatga aatgatgttt ttaagtttaa 300  
 aaaagtcgta agttaataac ttgagaccgc tgaactataa aaggcctatt agatggcttg 360  
 ataacaaaag ctttggcctt ttagtcggaa g 391



<210> 24645  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24645

agacactcta gaaatctcaa gcctatcaaa tctcacagta gatcgggaaa tctctgaggt 60  
 gagacgtatc agataaggtn cgaacacaag gataggaaga agtgcaagcc acatgggttc 120  
 tattacaatc ctgtagaatc ccttttagcat caaagcaagt gcagcacaaa atgtacacat 180  
 catggatgcc acagacaaaa ataagggtac aagaccaatg agttacttca tgggcaacca 240  
 cttgatgaaa tcttgctcag cataacgcga tgtgagaatt ccaataaaca tcaacaccga 300  
 tgatgaagat gcgatgaggg atataccgtc tgatagcatg aagaacgtaa atgtgcttca 360  
 cctaaaaaga cggagtgcc atgattatca tcgttacccc cttgggcaag gaaagctgca 420  
 catacataat ggctatgatg aga 443

<210> 24646  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24646

agcttgagac ttcaagatct gaaactttgt tccctaacca tttcgtttta gtttaagggga 60  
 gtcttttttca ctctttaaac cctaacccttg ttgtcttttg aagttaggct tcattgcatg 120  
 ttgtttgtgat gtttaaaatt tggatctctg tgatcatgaat ggagctggat gatatgttgc 180  
 ttttctggaa gtttaaaagg taaaaatgaa ttttttgagt gttaaaatat agggtttagcc 240  
 ttaaaatttca cttaaatcag agttttctag ccaaagtaat gaataaaaca agtttttagaa 300  
 cgtttttatcg aataaaatct gtcacaaaaa taatctggca atgagagctn tgaggattaa 360  
 ttntattaaa ttnttgacct tanaaatgag ttt 393

<210> 24647  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 24647

tgtgctccaa acagatgcac agaacagaat tgttttcacc taacttcatg gtaatttaca 60  
taaactcgtg tcattttttt taatttggtta ttgtgtacat tagtaaaatt taactaagaa 120  
aatctaattt aaattttattt tcaaattttc tatcaaatta aacacttcaa aaacatgacc 180  
agatacaagg taagattcac tcaactaaacc tccaaatttg cctactcagt ttcttcagct 240  
caggggtcaaa ctcatctctg aaatgacgcc cctgctgaaa tcaaataata ttctgttttt 300  
ttcactcaga tgtttgacct ctttcaaaag tctgacccaa cttaagcttc cggggaaggg 360  
gtttagtata tacgatattt caaattagtt ctagacgcgt cttactataa tagtaagctt 420  
atacaactgt gtc 433

<210> 24648

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24648

agcttgagat gtggaagtgt tgaagggtga aacttctgc ttttattggt gaccacagag 60  
tggtacctgg agatatgtcg cgggggtcag gagaccttgg ggacgtcagg tggggtgcta 120  
ttgccccaaa ccaagcttga ccaatcccgga cccaaccgg gcatagtcgg tcagtgagaa 180  
cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaagg aacaaagacc 240  
acaaagcatg gaggcttgtg gtggctggcc agctgtgaaa cttgattgat atgtgagata 300  
tggtctctgg taatcgatta ccaagggtgg gtaatcgatt acaaggctta naagtgaaga 360  
caggaggcta agatgggtctc tggtaatcga tta 393

<210> 24649

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24649

nttcacaaag tttatggtaa aatctaagac ctagccatgg cagatgtctc cacagaggct 60  
attgcctccc tcgcctagta ttatgaccag ctgtcatacc ctaatttcat ccggagacca 120

tcgtttgatg gcatgcaacc ttgtcttgac cgccttgagg tacttaacat ccatcgttag 180  
gtaatccgca aacttccgcg acattccgaa agtcaaaaag aggcattggt gcgcaatccg 240  
taaagttccg cgacatttcg gaagtcaaga agagccttgt tgcgtaattc gtgaagtttt 300  
gcaacattcc ggaaaggaaa caagtatcgt tacgtaatcc gtaaagttcc gtaacgttac 360  
agaaaaagaa tcagcaaaaa aagcaaaaag ggggtgtatt tagtaaaatg gggagtgcaa 420  
gtagca 426

<210> 24650  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 24650  
agtttaacag gaattttgcc ttctttatct gtgacatatg tattgtctcc cctgtaaatg 60  
tttggcattc tatgtcaatt ttccaaagta aaaaacaact tatcaatcat gaacacagca 120  
tatctgagac agtatatgaa gaaaatatcc atgaaactga agtttaaaat tgaaatacaa 180  
taattaaagg gtcaataatg aattacagaa atgatatttc catattaaaa aaaagaaact 240  
taactagtgc cattttagag gtaaacaaag aaaaacacat tttaacgcac tgtttctctc 300  
tgcttccctc cccaagcaa aataaaaggt gtaacttttt ctatgaagaa atatgcatgg 360  
taatctgttt acagcttatg cttctaagca ctactatgat tccaat 406

<210> 24651  
<211> 403  
<212> DNA  
<213> Glycine max

<400> 24651  
tcaagcttcc taataatgat gaacgactat caacatagct cctatatata tatagtctta 60  
tctcatatag ccctaataatc actaataact aatttttaac attctatcat tcaaaagtat 120  
ttctacagaa ataatgaatt aactttcaaa tattttacga ccatattgtg aaattgtgtc 180  
taaaatcttt atttcatctt ctaaatcaca aaaatgataa taaagttcaa aactaattgt 240  
taatcacgat aagaatcacc catgagggaa aaaaaacctc tataaaggtc atttacatta 300  
aaataaactc agagataata cagattatta taaaagataa attctatatt ttaaaatcaa 360

aaggaggtgg cttaattgga atgcaaataa gacacgactt tac

403

<210> 24652  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24652

agtgtgcgna ttcatcaga ttccaaaact atcctttatc gagaaggact cgtgagagag 60  
aggataccat tttttttttg tttttacttt tgaagcatag ttgataaatt tcgtaggcag 120  
gaggtacatt tggccaatca ttacaggaaa gaaatcattc caatggcatt gttgatttca 180  
aacaagctct cacaaataaa actctgtcct ggaactacac gtgtcaactc tctctgggta 240  
ttgacctttg tgtaggacag tgtaaaaacc aatgtgttaa ttcttaatga agcaagcgta 300  
cgtgtgacgc gatcagacat cgtagaattt tcttttgatt acgcatagct acagggtaat 360  
caacagcaac actcgcatgc caagt 385

<210> 24653  
<211> 336  
<212> DNA  
<213> Glycine max

<400> 24653

tgctttataa tatgggaaca cgccaaagac aaaaggcgta aatccctcca taaacaggta 60  
aatacaaaa caaccaagct tttctccact acgtgaagtc aaacaaagcc ataacgttgt 120  
gttggaatc aagcctatac attatctaag ccttcttaca tctctagcaa ttagcgcacc 180  
ctccatctga tctacaatac ttaatggggg ttcattaagt cttgtacacg catgccctaa 240  
ccacctaaag caagatttta ccatcttttc tacaacaaga gcgctacccc aactttgcct 300  
ctaaaatagc ccaccccccc aacatcgctc tcataa 336

<210> 24654  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24654

agtttagcat gctttgctaa gcctaactcg cataaaaaata ttttctggat ctttaggcta 60  
 agcgcgagtc agttgcgctt agcccatgag taaaatttta taaggcatgc taagcccagc 120  
 ctgctgcgct aagcgccctag ttcaattttt agttttattg aaaataaccc taattaatct 180  
 tgttgtttga tcatatattt ttagatggca tcaaagaaga gaaaggcacc tgccacacct 240  
 tcccaggctc gatatgaacg atccaattca cttctccga ggctgngaa aggtacacta 300  
 acattgttgt acctaggaag ctgcttcctg agcggaatgt ggtaatctac cacattgagt 360  
 ttggtgagtt caaggaagaa ttggagagaa gaaaatggg 399

<210> 24655  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24655

tatgcgcata tttccttacg aacgtttctt tgcacttgac attctattaa ctaagaaaaa 60  
 tgcaccata tacaatcaag gcagcttcgt tacctagatt atttacatgt acttccaagg 120  
 tgtatttgtt acttacatca cacacatctc cttggctaaa ttacatata tgcatactca 180  
 aagcattttg ggggtaccaa aattgcacat gtgcacatct tggatttcct aatacctata 240  
 catacaciaa cttcatgatg aatcttgact atctacacia taagggtgta cattccatgc 300  
 tcttttcaag tttttgctac cttaaagccgc atgcaaatec aagtatattc tcctttgctg 360  
 actaanattg cattcaaatt aaaggggtata catttctctt gtgatgtatn tactttacat 420  
 aacatg 426

<210> 24656  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 24656

agtttttagc caaatggact taccttgaat taattccttt gatagccctt ttaagccttg 60  
 tttccccttc cttgttttga agctcactac aagccttaaa tgaaaaacca tgatatcacc 120  
 atatctttta ggaatttttg agctttggaa ttgttatggg aataagtgtg ggggggtttt 180

ttttgttaca ttggataact tgttttgttg gctatgcttc gtgatgtatt tcggggccata 240  
 cttgatgtac attggatatt ggttaaagt tggacatgct gaataaaatg tagtttctca 300  
 taggttatat tct 313

<210> 24657  
 <211> 528  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24657

tcacaacgca cgcataatga ccgaacatgt taataaagta atantaaaaa aaaagagann 60  
 nanttgancc ttgatgcctc gatcacacag gcgaaacaag ctcggaacccg tagatcctac 120  
 acaggcgacc tgcaggtatg caagtttgat aacattggac tgagcaaact ccgtgatgaa 180  
 atgggaatct atgacaatga gcttggaccg gacatggagg gaagggacgc tggcaaagct 240  
 tatagtagat ttattatcac aaagcaacag cccacacggc acatcaaccc ccaagagaag 300  
 aagcatctgc tataaccaa caactacact agcatgaaca tagctggccc aatcaacatc 360  
 acaagaggat atgaccccg gagagtcttg aggtgggaaa aatacacctc gggtagcagc 420  
 ataatagaga tatgcggacg atgaggacaa catgcagcga ggactctacg tccttatata 480  
 tgacgcaccg gatcaaaca ggtgactcag gacgaaaagg ggaatacg 528

<210> 24658  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <400> 24658

agtttgtgaa tcaagtttgc tctggacgac catgcactat ttttttcttt tatttattag 60  
 taatgataag gaacctaaca tgcaggttga ggtggcgac attgcacaag atctcagaga 120  
 cataagacac taattctttt cttttatttg tagaaaaagt caaatttgag gatctaacca 180  
 atatgtgata tgtttctata aatacagatg aataaaaatt aacgcattta tgtagattcc 240  
 agttagtagt tatactagct actggcaccg aatgacataa agaaaaagga attatctaga 300  
 agaccattct atattgggta gcgaattttg aatccctgca ttgttgcttg cttgttcaca 360  
 caacatgatg ttctccagct ggactgttgg cattattt 398

<210> 24659  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 24659

tggcaagcca gagtctcttc ggctggctct ttgcttggtc ataatcagct gccggaataa 60  
 gtaggcacca ccattcaata ccattataga gaatcaaata atatatatat catcagaata 120  
 aaattaaata ttttctattg ataggaattg tatataagca ttaagaaatt tataagactt 180  
 ccgcaccata cttaactaag ttataagaaa acctattgga tgcttttttt ttgggtgatag 240  
 gaaatcggat gttgaagttt aaatgaaaaa aagtaaaact ttctcatatt attgggttagg 300  
 aacattaatg gtgtaaattt taataaatta cgacatacaa caacataaat aataaaaaac 360  
 acttgtaaaa ttatatcata cgctgagata atcaaattcg ttgagataac taaaaaaca 420  
 tagatt 426

<210> 24660  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 24660

agtttggttaa ttagcactat tagatgcaaa ttcaatttgg ggtgggtgtc atgacaggat 60  
 aatttccttt gccaatatag ataattacat actaattact attagttaag ctgagagagt 120  
 acatagcttc gtgtggctta ttaagatcta gggtatactc tagctatgtt attctagaat 180  
 ctgtctattg ccaaggcaag agcaaaacct ttacgttata aaaactacta attggacttg 240  
 tcatgcacaa tttttctttc aataattttc atttgcaact atacattaca attgagagaa 300  
 gttcgtgctc tttaaaatga catataagag ataaagatct actggtgaag aattcttgtg 360  
 atgtaaaata tggatataac a 381

<210> 24661  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 24661





aaggaaatca gttaatttca atatttntaa aatcagaaca ataataaaag aagtga 416

<210> 24664  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 24664

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 gcacaccata atgcctatct ttcgaggaaa gagctttgga ggcagcaaga ggagcagctt 120  
 ttgcagagag acctagggtt tgtaattaga gagagattag tgagttgtag aataattgtg 180  
 agatgctgag aagaggagta gggatccctc ttcttgttta aggaataatt attctatact 240  
 cttaatctca tttgtgttag ggtttttctg tatggctggc taaacactct tgttgggaat 300  
 ttctatggaa cagctgatgt aattacttta atatctaatt gattgtgttt cctatgttca 360  
 atgcttcttt caatgcttaa tttctacatg ctcttgggtc gat 403

<210> 24665  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24665

taactcatcc aaacatggca agttcaacat gctttttcaa atttcttcac aaataactat 60  
 catgaagcag aaaactagca aaactacca tcatatctcc caaaacccca taccacgaa 120  
 aatcaagaga gaaagaagtc cacccaaacc tgaaatttcg aagtcacaca cgtagagaca 180  
 cgtttcacga ctccgaaaat gtctctcttt cgcaatttgg agcagaaatg ggcaccaaag 240  
 gttgaagctt tgttgggcaa caatggtgga tgagagaaaa gaagaagaaa gctgctgag 300  
 agagagggag agcttctgaa ttttcttttg gctgagtgag gagagagaac aacttttgg 360  
 tntaaaaaaa agttttctct tttctatta tttatntaa gctatgccat gtgtctccat 420  
 ttgagtggag caaa 434

<210> 24666  
 <211> 406  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24666

agcttgctgc ttcattgaca gatttactta aaaaagaagc attcaagtgg acaccagagg 60  
cagagacaac atttgttcaa ttgcagaaag tcatgacttc agtccagtg ttagctcttc 120  
ctaatttcca gctgcccttc attctggaaa ctaatgcttc cgacactggg attggagtag 180  
tattacatca gaatggccat ccaatagcat ttttttcaa gaaacttgca cctagagtgc 240  
aaaagatatc tgactaattt agagagatgt tagcaattgt tgaagctata gctaagttca 300  
gacactactt gctgggacac aaatttatta tcaaaactga tcaaaattag tcagatgatg 360  
atgttgatgg atggaacaac cncacagac acctgaacaa caacag 406

<210> 24667

<211> 411

<212> DNA

<213> Glycine max

<400> 24667

tgtgagacct tccgctacaa tgttgaagag aaaaggtgca aggtgatcac cttgccttag 60  
acctctctta ggagtaaact ccttagatgg actccatta attaaaatgg atatagttgc 120  
agtattttaga caaccattta ttcatttcct ccagctttca caaaatccca tccttttaag 180  
catgtagtca agaaaacccc aagaaaccga gtcatatgcg ttttcaaagt cggctgtgaa 240  
gaccatgcaa ggtttacttc tagatttggc ctcagctata gtctcattgg caattaaaac 300  
accatgaaga atgtgtctcc cttcataaaa agctgtgtgc ctttcatcta taaggtgagg 360  
taatacagca gccagcctct tggccaaaac tcttgccata atttatagac a 411

<210> 24668

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24668

agtttgcttg tggggcttct atttaggctg catatttgag cttcaatgag gtcctttaat 60  
gttgattttc caccatggag atgcagcgga agacaaagga aaagaggtga gaggaggcgc 120

caaccactag ggaataagcc atggaagaag gagcttcacc accaagatga gccttggata 180  
 ataagcttgg agaggatgct tcaatagagg aaaagaaaga aggagagaaa gagagagggg 240  
 ggatcatgaa attgaaggaa gaaaaaggga gagaatttga actttgagtt gtgtctcaca 300  
 agactctcat tcatcanagt tacaacaagt gttacacatg cttctattta tagactangt 360  
 agcttccttg agaagttttc atgagaaaac ttccttgaga agc 403

<210> 24669  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 24669

tgaggataag aatcctggtg caccaaacia tcattgtagc aagtcaaag tgaagaaaca 60  
 acattgacaa ctgaagaaaa gaacacaaaa aacaagaaaa taaggaggga aagaagaacc 120  
 tcctcttctc ttagtttaac cttttgggtt ttctacttca tagtcatagc tgagccatgc 180  
 attagcgccc cctaacacac ttatactcta gggctaaaat ggtttcaacc attttgttct 240  
 ttctgtaagt gaagggtcag tggtaacctt tgggttcaaa acaaggctag atagggttaa 300  
 cccttaagcc aaaaccaca tcgacaactc tacataaaaa gagccaacat atatgagaaa 360  
 taagaacacc taagcaaag taccagctga gcaacacacg aataaaa 407

<210> 24670  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 24670

agtttgaaca atcttagaga gctgctagag aactgctat cactactgga atacacacgc 60  
 gatccactt agagataaga gatgagttta ttgcaattga ggtagagtg aatatgtgta 120  
 gggatcctta gagaatcaaa ttgggaataa ttttggggcg ttatatgcgt ttttaattttt 180  
 catgtacaat tataactaca aattgactgt atttgacaga tcgattgacg tcccgatgcc 240  
 gaaattgttg tgaaattgat atgttcttgt gttgagtgtg aaccgagaa attggaaatt 300  
 ttctaattag cgtgaattga tgaaattaaa taaggaaaga tttcccataa gagtgaagata 360  
 ttgattctgt atttttccct tttcgtgc 388

<210> 24671  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 24671

tattcaacgg acctctagtc actcaatctg ccaacctaaa caccatccc taacgtgttt 60  
 attatgaaag taatttttagg aaagctcatt cttttttggt ttaattaaac cgtggagggt 120  
 atagacaggt taaataagtt tcaatagttc atttagtttt ttgaaatata tgaattcttt 180  
 caactacgga attgaatgct agctcctgca cctatgtact ttgttactca tagaaaacat 240  
 tgttctatat tcttctggta aattctgttg gtatgtagta ttttgtatct gtctgattgc 300  
 tttacctctg ttttgttcat atacaggac ttgagaagta tgttctgaca aagttatttg 360  
 ttcgtgtatt tgcttcactt ccagatgtat ttgctcttg 399

<210> 24672  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24672

tgtcttttgg tatatatagg cctccttcaa tcaagtattt gttgcctcta aatggacata 60  
 tttcgtctct taagctttct ttttaagaaa atggtagtta gggcattaaa tgtgtgcatt 120  
 taatgcatgc acttcttcat gttgagaaac cactcttcgt ccttggcatg ttgaacacta 180  
 catcaggaaa ctacttcctt ttacgttaga gtaggtttgt gcagtagaac ttttcttttg 240  
 atggcgatta aggaatttta gaacttggct tcattcatta ttcataagat tcaacaggct 300  
 ctaggagaat gtatttgcaa aatagatctc agacacaaaa tattaataaa agccttaaat 360  
 gtcattgtta atgtcgtatc ngatcatgat tctatctt 398

<210> 24673  
 <211> 184  
 <212> DNA  
 <213> Glycine max

<400> 24673

tctgaaaaga gtatgatgaa ctaatggatg tcaatttggc caccaatgaa gccttggatt 60

gagaaaccca caaggctcta aatgaagaac acaaccataa caaagttttg aggggcttta 120  
tagggcagca attgtgagct catactccaa ataggtgaaa ggaatcatca cgggtcaaag 180  
gcat 184

<210> 24674  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 24674  
agcttgagtg agccaccata gagtgagtca attttgtaa cacatccttg taaccctact 60  
atcattttgt atagtgaag aatctccata ttggagaatt ataattgtgt gctcccat 120  
ttatctttta ttactaagtg tctatcttaa cttcacgaag cgggaaagtc caagtttttc 180  
caacactttt tactagtgc ggtacaatga gaagtcacat acacaatata ttaaatactt 240  
ggtaggggtg gttctaagga agacactaat tgtacatcta gattgttcg agcatcactc 300  
attatttcaa ctggttcaca aagagcgaca tcagtgtaat aagagctgag gtgtcagtgc 360  
ttgctgacac accattagta ttaataataa ta 392

<210> 24675  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 24675  
tgagctcggc ttgagttgaa tacgtaattc ttgagctcgg cttgagttga atacgtaaag 60  
cttgagttga cataggcttt ttttaaggct ctgctcgact tacataaaaag tctgacttac 120  
gagcctattt aaaagcttgc ttaaagacgt cttttattaa ttaattat 180  
tgaaatacta actaaaaaaaa gaaacttata aaatttcgta taaataatgt acaaatctaa 240  
aaataattga taaacaaaat tatattgaat tcaagtcgtt aaagcacaaa gtatataaaa 300  
aaaataaaaa tagcataata ttaaaaaatg tatggattag agatgattta cactaatata 360  
gccaaacaaa aattattatt agttaaatta acaattttta atccaatttt ttttaatatat 420  
aattata 427

<210> 24676  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24676

agtttttgca gcttcataaa gcttttggac taattaaatt aatactttca aaattaaaga 60  
 taaatatttc atatatcatc atttttatat ttttattatt ttaaaaatga ccataatatt 120  
 tttatgtaaa tttaaactagt tttctagggtt tttaaccata atatatgtat ttttcaaaac 180  
 ttccatttca aagaaaataa tatttattat tttaagttca aaactcaaag aggaaaaaat 240  
 gcatgcaaac aaattcaaat aataagtatt ggctaaaata tttttattat gaaattaaat 300  
 tttttaagga taaataattt cattntttgg aatatttgat attttgattt ttatttgatc 360  
 cttanaagta acattgtaac aataaaataa tattttttca 399

<210> 24677  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 24677

tggagaggat gcttcaatgg aggaaaagaa agagggatag atagagagaa ggggggagca 60  
 cgaaattgaa ggaataaaaag agggagagaa gtggaacttt gaagtgtgtc tcataagact 120  
 tttattcatc aaagttacaa caagtgttac acatgcttct atttatagac taggtagctt 180  
 ccttgagaag ctttcttaag aaaacttcct tgagaagctt ctttgagaaa acttccttgg 240  
 gaagctagag cttagctaca cacaccctc tcataactaa gcacacctcc ttgagaagat 300  
 tactaaagaa gctagagctt agctacacac acctttctaa tagctaagct cacctccttg 360  
 agatgagaag ctagagttaa gctacacacc cctataatag ctaagctcac cctatttcaa 420  
 aataca 426

<210> 24678  
 <211> 512  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24678

gatgagannn tttgaagcct tgattgattt gatatagcaa cgtgcaagta cagctcggaa 60  
 cctgtggatc ctatcgagtc gacctgcaat tatgcaatgt gtctcgactg ttttacaagt 120  
 gaagagaact acaggttaca ttaattcctt gacatatgaa tctcggacgc tagtcgctga 180  
 agctatatgc attatagagc gtcgagattc tgaagacgca cttgacagcc tcaacttaact 240  
 tactaatgaa tagataacat atcgaaatct tcttttactg acaagctcgt aacagaaacag 300  
 ggaggtagcc aagactcgcg atttttgtac cacatatgca atatgcggac taattttctca 360  
 tattgatatt cgagtctgct caaataatgt cagagttctc tgttactgc aaaacttagg 420  
 tagctgctat gtctagatga aacggggatg ttgcatagct taatttgcca ctgatccaat 480  
 ttcattgtact ggtggacggg ctgaaatcca cg 512

<210> 24679  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 24679

agtctttgac agaaaaaatg gcttgttgcc agaaaaaacc catatggatt gatgatttgt 60  
 atggttcata cagattacca atccgtatgg gttttattta ctttataaaa ttatttttaa 120  
 ttttttttcc ttttattttt ggtaaaaaaa aatttagtta ttattaaaaa taattattgt 180  
 tattattaaa aaaatttagt tattattaat tttttttaa agtttatttt gtgttggtggc 240  
 catacgaatc actaatctgt atggtatttt tttaaatttt tttattaatt caaaatgata 300  
 aactgaaatt tttttttaa atttccatat ggatcactga tccgtattgg tattttttaa 360  
 attaaaaatt agaaactaga aattatgt 388

<210> 24680  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24680

tgtgtatntt gatattaaaa atattaaaa atggatttta cgactgaaag caaatgtaga 60  
 tcaggaaact cctgtgtgtg tgttaagtgt gtggtatgat aatatagggt tagtggtcaa 120

gtagataggg gatgggtgaa tgctctccta gaacctatgt gtttgaatcc tgagaaaaac 180  
catgatttcc ttgttagccc agccacgtta caagccttat aaaaatatag tccttagtga 240  
tccattttgt gtgcacgcta ttgtgttgaa tgagattatg tgcaaattca aaaatggtaa 300  
cttcaattgg tttgaatgaa atacacataa ctgaaacact tgtgtgcttg agagaaacac 360  
tagccttggtg aggagtgaag cacggttgat cttctttgat tcctgtcata cttg 414

<210> 24681  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24681

agttttgagc aacttcaaac aacaacaact ttttactcgg atgtctgatt gagacccgta 60  
atatatccag acactcgaaa ttcaataccg aagctctgag caaattcaaa cgacaataag 120  
tttttactcg tatgttcgat tgagtcccgat aatatatcga aacgctcgaa attgaagacc 180  
gaagctctaa gtaaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcccg 240  
taatatctcg agacgcgcgg acttgaatgt cgaagctctg agcaaattca aacgacaata 300  
actnttttcc tcggatgtcg tattgagtcg cgtaatatat cgagacactc gaaattgaat 360  
atcgaagctc tgagcaaatt caaatgac 388

<210> 24682  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 24682

tcaacattca atactgagcg tttcgatata ttactggact gaatcagaca tcagagtaaa 60  
aagttattgt cgtttgaatt atctcagagc ttccggtattc cagtccgagc gtctcgatat 120  
attacggcgc tcaatcagac aaccgagtaa aaaagttatt gtcgtttgaa tttgctcaag 180  
gcttcggtaa tcaatttcga gcgtctcaat atattacgga actcagtcag acaaccgagt 240  
aacaatttat tgtagtttga agttgctcag agcttcggca ttcaagtcct agcgtctcga 300  
tatactacgg gactcaatca gacatccgag caaaaagtta ttgtcgtttg aatttgctca 360  
gagcttaggc attcaatatc gagcgtttcg atatattacg ggactgaa 408



<210> 24683  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 24683

agtttgtaac tttctcaaaa ctctcaaca ttgccttaat gaccctcaca ttttgcattg 60  
 atgcttcacc aaagaaaatg gtatgatctg catatcacag gataactaatt tccactgagc 120  
 ttcttccac caagaggcct ttaaactgat tttttttaga gcttctctca ttagaccctg 180  
 taatccctca gccacaatat tgaacaggag tggggctaac agatccctt atctaagtcc 240  
 cttttgaggg aaaaattcag cttaaaggact cttattgatc aatatggaga caaaagctga 300  
 tctaagacat cttttgaccc aagtaatcca cttagggtag aatcccatcc tctaagcat 360  
 atataccaga taatcctcac taactgaatc atgtgccttc tcatag 406

<210> 24684  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 24684

tagcgcacac ctatgcgcta atccaaaaga cactgttata ctatttgccg gcttactgtg 60  
 ctccctgcgc taagccctaa tgcccttcac atttgtggtg tagcaagctt ggtgcgtgag 120  
 gcgcgctaag ccaactcata aataaatggt gttacaccta ggcttagcat gcacgctcgt 180  
 gctaagcagc tattcccttg ggcaagtttg ttgattgcct gggctaaaca tttctcatgc 240  
 gctaagccca aaaacggcat tgtcaaacta ttgtcactta ttgggctttg cgcgttctac 300  
 gcactaagcc ctaacaattt aaggctttat aacttttgat ttgggc 346

<210> 24685  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 24685

agcttaacat tcaagaattt ctttgatctt ttgtgttctt cacattccac ccaaagatta 60  
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[illegible]

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<223>      unsure at all n locations
<400>      24686
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<210>	24687
<211>	405
<212>	DNA
<213>	Glycine max

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cctagcccaa	cgccccttag	tatggttggt	tcatgactca	tgaatgaaaa	gggggaaaaa	120
ttacttttcc	tatttataaa	agttaatata	tgtgttttct	atttaaatat	ttttgagata	180
aatagcaaat	acatttatga	aattaccttt	tcaagttaag	tcttattcaa	cttaaagttt	240
aaatccatgc	taattttggt	ttaaaaagtt	cacgagacta	tacaccttta	cagcattttt	300

agcataacat gtagaaatat ttgccaatta gtaatatctc tattatttta aaagatagta 360  
atattntaaa aataacttnaa agtgtcaa at tattaattag taaag 405

<210> 24688  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24688

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ctaaacgatg agaatgtgat gagaatgtgc gaaaatgatt tttgaactcg atgttcaa at 120  
ttcacaatga tccaacggtc aatgagtcgt taatcatagt tttattgaga caaatttggg 180  
tgtatacgaa aaaaaataag attttgggaa agaaagaatg aagaacattt gagagaaaga 240  
gaaagcgtat agatgtattg taaatgtaaa aagtgcctg atatgtctct atgtatagtt 300  
aggttattct caacctatta tatactctat gtgctctatt ctattatttt ataagaatga 360  
attntgattt tactccctat caaataaata aataaaatat catcttctat tttctaagaa 420  
tatatatt 428

<210> 24689  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24689

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tgctgatgga gttagctcat gcatttaggt accatcaaaa tatttaaagg taacggggcaa 120  
gaaaaaataa tagcaactgt gtgtacattc tctcaagcct tctgaaatgc gcgggaagaa 180  
accccatgca gaagcctgac aaatcccaag aaactaagct ttccatctga gtgccttacc 240  
caatcctgaa gtactacatg aacaggtact gatggactaa gcccaagttc ctgaaacgtg 300  
tcaattgtaa agagctcagt accattatac atgtgatgaa ggattatact atatgcattc 360  
gatagaaaat ctcattagag gtatatctat catgtngata aaat 404

<210> 24690  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24690

ctcctatgca aaaacatcaa cagtgccgct gaacctgtct ttgtttctct gttcattcta 60  
 tcacaaagac ttaatcctca tgacagagaa gcttaagggt aaagtccct tgagggtggt 120  
 gaaggccaag tgcaaaacgt gcaagccaga gataatattg aagaaatccg ggagggaggg 180  
 agcctatgat gttggcagag ttggcggaga agttctgaag tttggaagct tctcagagag 240  
 tataaggaat ctccaagcc tgatttttct gccctgaaag atttgcaagt tttgagcttg 300  
 agtcttaaca aactcactgg tccagttcca gcttctttgt tgggtctttt gtggtcaaaa 360  
 gttgtgaatn tgaccagtaa cttgtttcac gggccaatgt ctgtgtttgc tcattgngtc 420  
 gaggtggata atgcccct 438

<210> 24691  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24691

agtggggcaa gcacttcaca ccttccttgc ttggccgaca tatctggtca agtctttatc 60  
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 cctcaaatga ggccatttaa ctttgtttca tgaatagata gttgtgtctc tgccaaaacc 180  
 acctccaaag cccgatcagg aggtcaatga tccactttat ctaatgacat tgaccatccc 240  
 agagcttttc ttgaggcctt atcaggttac atgggatgcc accgtgtttg gggctctttaa 300  
 tccaaatttc tcgctctaca taaaacacan agacctctcc ggaatcgcat acggtgggtca 360  
 atgtctcagc atatcaggga ccagctagag gagt 394

<210> 24692  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 24692

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attgaactga agaccatgac cgtgttaggt ctatttctag aactcgtggt taggctaagg 120  
accttttttg gtttctgggtg caaggattgg cgaagtgggtg gtcacctgag gtacatttga 180  
ctggtagtac gtggtctttg tggtcagctg aggtacattt cacctgaggt acaatctcgc 240  
cggcattgtc gctgttggtg tcgaggtaag cttcatgtct tcattgtaac tttgtgcttc 300  
cgcgtacgtg gtctttgtgc tctttgttct tatagattgt tagttagttt cttaattagt 360  
tactactact agctaggggt tggaatgcan gtagtcttgc tcggaaagct gtataaaaat 420  
a 421

<210> 24693

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24693

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ccttctcaga ttagcttttg ttggtagttt gtctctgatg agtcgccatg caaagattga 120  
tgcttttgct gggattttta gcttccatag gtccaccaat gcctcatcca aagtctcttc 180  
tgctgtttct tcttgcagca ggtgataagc actccttgta aagtaatggc cactgggttc 240  
tggttttcat atccagcagt ctgttatttg ttgatggttt ggctcccat ttgctgaatg 300  
actctttggt gttgacagga tatttggtac aacctgggat attntgtcat tagtgcttcc 360  
cctcctccag tccatcgatc ctactcaac atatttg 397

<210> 24694

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24694

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agtgattctg aagttaaaac tgatcagcaa agcatggagt caactgacag taatgggaaa 120

acaggtgcag attttggaca tatgccagaa aaatggaaag gagtcaaaag acagattgag 180  
aaggtatttg cttttgatat ttcattccgta ttgctcttaa tactgtgata ttattggtat 240  
gacactttaa acaagtttct tcttagtagt ctattatcat tgcttgtttg tgcaggatct 300  
gcctcgaaca tttcctgggc atcctgcttt ggacgaggat ggtagatatg ctttgagacg 360  
attacttact gcatatgctc gacataaccc ctcagtt 397

<210> 24695  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 24695

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ggagttctgc ctttaattgca taggtagtat gggtgtttgt gatttcttgt tcttagtgat 180  
gctaatactc tatagttgga tgactcatat caagttatat ttcataagga atactctttt 240  
gatcgtagct tctaattcta gtgcaacctt tttttttttg tgttgcggtgc ttaagtcaaa 300  
taaattgagt tcacttgaaa gcctaagtat aattaattct atgttatgag actacatcac 360  
acaattggat cactgatgtt tctatcacia tcaagtgat 399

<210> 24696  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24696

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ctttggatag ccctctatta gcattgggtca gaatatcagc cagttgatct atggcaggaa 120  
catgaacaac attgagttgt ttggtgagaa gtttctctca cacaaaaaat aaatccagct 180  
ccatatgctt ggttttttgag tgaaaaacag gattatgagc taatgaaaca attctggtgt 240  
tgtcacacaa aataatagga gtagtgtaag ctacttggag ttcagaaaga agagactgaa 300  
tccaagtaac ttctgctgca atacgagcca tgcttctata ntttgctca atactcgacc 360  
ttgcaacaac tgattgcttc ttagaccacc aagagatgag tttatgtcca agaaaaat 418

<210> 24697  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24697

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 ccagtctata acatcaattt aaacttggtc aaactggatt tacacctaaa attttgccgg 180  
 atcaaaattt gactcctcaa cacctaaatt taccctagaa atggctcttg ttcactttgg 240  
 tcatttggtt ttctctctag cacaacccan actttctcat aagtcctaaa tgcattttca 300  
 agctaggatc aactcactct aacctccaaa taccactaaa tccagatttg accttccaac 360  
 tctcagagtc tcactctttn tccactcaca acaccatact 400

<210> 24698  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24698

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 ggttttgaaa aattgatgtt aacatcaagt agttaacatc ggatattgaa acaccgatgt 180  
 taactttaga aagttaacat cggtttttaa aagaaccgat gttaacattg acatgttaac 240  
 attggttttg tttaagaaac cgattttgtc tcattcataa gttaaaaccc caaaatccat 300  
 tcccccccat gcgatcagtt accaaaatcc tttctccctt tcttctcat cgctcacgct 360  
 cgaaagacct atgtgtcttc ctactcaag ctgccgctga ggttcgtgtt caggttcgca 420  
 ctggct 426

<210> 24699  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<400> 24699

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tgaacaagag aagattagtt taaaatttca acttcaacat tttattgtgg ttactcctac 120

taatcagatt taaagaactt gtccacaatg cttgaattgt gtcaattatt gagacctcct 180

tcaagctacc attgcactac attttttttc taattataca aaatagcttt aaaaaactac 240

ttattttctaa aaaatctgcc acaaaacatg tccaaaaaaa acatactgat gactgaacgt 300

cttgaggcac agatcgataa cacagcatgc aagcgaaaca ccaaccttca tcagtaacca 360

agtggcaaaa attagtttct cttgttcgct tattt 395

<210> 24700

<211> 315

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24700

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gaagttacgg tggcatccac acgcggcgca cgttagcgag cgcgggttcgt tggggttgga 120

gaaagaggag ggcattgaact caccgcaccc atcaagcgcg tggccaccaa tgctggctgc 180

atgggttttg aggcactctt tgtaggcaac cgccgtagac ggtggctgnt gcggcggtga 240

cacggtgggtg ggggtggatg ggtgatggtc cttgaggag cggttgggtg tgaaagggtg 300

tggtggggta tcgac 315

<210> 24701

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24701

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tgtgccatca ttttcttcta ttttctatac ctttttagca ccattttaat tactaattgg 120

tcttaattgt caattaatta ggcagtttta ttatttgggc tcatttagct aattagatgt 180

ttttaatcta atttcaggaa ttaatgaaac attggactta atccggattt tggttgtgga 240



cttgaagagg gcaaataaag cagcactaac cttagttaat ttctaattag gaaatttcgc 300  
aattntatatt tatgtggttt agtgtttatt ccgttttggg ccagagtatt gtaatatggc 360  
ttagtgactn tgagtgactc 380

<210> 24702  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24702

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tgagtgagag tcttgtgaga cataacttcaa aggtccactt ttctccctct tttattcctt 120  
caatttcgtg cccccccctc tctctttctc tccctctttc ttttctcca ttgaagcatc 180  
cttccaagct tcttatccaa ggtcatctt ggtggtgaag ctcttcttc catggcttat 240  
tccctagtgg atggcgctc ctctcacctc gtttccttg tcttcgctg catctccatg 300  
gtggaaaatc accattaaag gacttcattg aaactcanag atccagctc catagaagcc 360  
ccacaagcaa gttccatca tctctctct tctcttctg cctccacac 410

<210> 24703  
<211> 387  
<212> DNA  
<213> Glycine max  
<400> 24703

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acaatagcat cactcctggc actaaattgc tgggagtttg aagccatctt ctgaattaaa 120  
tttctggctt cagcaggggt catgtctcca agggctccac cattggcagc atctatcata 180  
cttctctcca tgttactgag tcttcacaa aaatattgga ggagaaactg ctgagaaatt 240  
tggtggtgag ggcaaatagc acataatatt ttaaattctt cccagtattc atataggctc 300  
tctcctctac gctgcctaata gctgagata tcttttctga tgaatgtggt cctggaagca 360  
gggaacaatt tttctaagaa tactctc 387

<210> 24704

<211> 421  
 <212> DNA  
 <213> Glycine max

<400> 24704

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ttcaacaaga gtcttcacaa ataactatca tgaagcagaa aactaacaaa gctacccatc 60
atatctccca aaaccccata cccacgaaaa tcaagggaga aagaagtcca cccaaacctg 120
aaattttcaa gtcccactcg tagacacgca cttcacgacc ccgaaaatgc cctcctttcg 180
caatttgagg cagaaatgat ggccaaaggt tgaagctttg tttggagctt caatgggtgga 240
tgaagaagag agaaagctac gtgagagagg gaaagaaaag gcttctgaat ttctttcttt 300
tggtctgagt aggagagaga acagcttttt ggttttaaaa taaatgggtt ttctcttttt 360
ctattatttt attcaagctc tgccatatgt ccctatttga gtggagcaaa agggcccact 420
t                                                                 421
  
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<210> 24705  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24705

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gcgactgggc cctttcttcc ctttgcaact tgagttcact attgctaccc catagagctc 120
cgcgaaattt gttccggcca tactcttcc tgcgagccct cttgggtctct tgttcaaggg 180
ctcttgcggt aattgcattc tcttcccgta acccggcgca ctcttccga acgtgtgtag 240
cagccaactt gaacttctcc ttggcgagtt ntgcctttcc taactcgctt ttgagagctt 300
ggactttctt gtcctcttcc ggtgcttcaa aattctcttc gctgacgact tttaacttgg 360
cgagccaatc taaacctcgt atgcgaactt tcagccattc gt                                                                 402
  
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<210> 24706  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24706

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 tgtacctgtc gcaaggggtt ggggtttgtg ctctctgtc gaccaccata cagacctttg 120  
 cccttccatg ccacaacctg gagcaattga gcagcctgga acttatgctg caaatatgta 180  
 caatagacct tctcaacctc agcagcaaaa tcaaccacat gagagcaagt atgacctttc 240  
 cagcaacaga tacaacctg gatggaggaa tcaccctagc cttagatggc ccagccctca 300  
 gcaacaacaa caacagcctg ctcttctctt acaaaatgct gctggcccaa gcagaccata 360  
 cattcctnca ccaatccaac aacagcaaca acctcagaaa cagccaacag ttgatgcccc 420  
 tccac 425

<210> 24707  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24707

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 gttactgctt catgggcatc tgggtgcctgt tctgccttgc taacatagct tgtaacatga 120  
 gaaaattgac ccatttcaat gctgaccaga attgcactca tacacatatg aataatgtgc 180  
 tttgatgtag tgcaataatc ccgagtacgg acataacttt taaaagcgtc cccaattga 240  
 ccatgagcat agtaaaagtc tccaaaatca ttgaatccca tctaatgct ttccttaatc 300  
 aagtttgtct gcaaaaaata aatgcgatga acaaatgac aggataagga atcaatgata 360  
 nattacgaaa aaacaggtct taccaaaata ctctcat 398

<210> 24708  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 24708

tatgcataat gaattagaag atgaccttct aatcagtgga aaaatgccgc tgtccgacat 60  
 ctatcaaaga tgtaatgtag caatttatga acttgctagc tgtaaggaag cactaaaaga 120  
 tccaaaatgg aaaattgcaa tggaggaaga gatgtctatg atacacaaaa gaaaaacatt 180  
 ggagctgggt gaaaggcctg aagatagaaa aatcattaga gttaaatgga ttttccgaac 240

aaagctcaat gcagattcct cagtcaacaa acacaaagt agacttgtgg ttaaagggtta 300  
 tgtacaaact tttggtattg attattctga tacttttgca cctgtgtcca gattagatac 360  
 aattcgattg gtgttaatag tggcttcaca aaagggttgg aaagtcttcc aattagatgt 420  
 caaattagct ttt 433

<210> 24709  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24709

agtttttagga tttatgtggc tatagcacat cttaggagag acttagactt aactctcaag 60  
 ctaaaattag ttagtggaca tgggaaaagg ttgaaaatct tggcttttta atttttaaag 120  
 gctgtatgct aggtagtgc tagggatggc tgtggacagc aactttatcg tttaaagcat 180  
 agcaaggaaa aatatgaaaa tgaatgatat aaaaaaacat gtatctgaca ttatacacia 240  
 aagtagttgg cactgtatta acaaaagata tctaatecta acctaggggt tcaagtgcctc 300  
 ctacaacttt tgaatgctnt catcttgtct tgaatecttt tgtccctcct ttgaatcttg 360  
 ccgatctttt tttcaatctt gtccttgagc tcttgga 397

<210> 24710  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24710

gaccaagttt ccaacggaag cnggatttga tctttttagc ttgncnctag acatggacaa 60  
 tgcattgatg tttgtcaagt atccaacagt ggaaagaatt gatccatgaa gtttattacc 120  
 actgagttga agtgtttctca aattatccaa gtctcctatg gaagatggga ttgaccaga 180  
 naaatcattt tttagcaatt tgattattgt gagagaatga agtcttccca actcctcagg 240  
 aatagggcct gagagaatgt ttttaagatg ataagttggt ccaaatttgt caagtttcta 300  
 atagttgaag ggattgcacc aaagagattg ttggatgaca catcaagttt aacaagattt 360  
 gtcaacatac caaatgttgg cgggatgaaa ccattacaaa gattatgatc cattttcaa 419

<210> 24711  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24711

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 gcttccctcc ccaagctcta cttccacttc tctttcactg atttcagatt cactgggtgat 180  
 ttctcccatt gccttcacga tcatgggtct cctgggtggg catttagaag caatatgtcc 240  
 tctgcctaag catcttatgt ttttgggtacc atttgtggac gaggcagaat tatgtttgag 300  
 ttcagcactg gacacttgtg actttccatg tggagacgct actaatggac tggac 355

<210> 24712  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 24712

cttgaacaac tatctggaaa ggtcataccc cgaacatggt actcttctta tttgaagttt 60  
 tactacaatt aactcttggt aaagttgcgt actctttttc ctacctcgac tttttatcta 120  
 taaaatgtga aagggttttt tctaagaagg ttttaatgag gcacaccta acatatacta 180  
 tcaatgaagg tgttttctca acaattatac ttgaattttc atttcttaaca attcccttct 240  
 aaataacctc ttcaactgag gacgaactca aaatgatata ataattttcc tcccaataa 300  
 cctctttgcc cgatgacgaa ctcaacaata aatcataagt tccctctcga ataccttctt 360  
 cggccgaaga caaactcatc atattaatta aaattaattg cacatcttat aagcaagttc 420  
 caagcacaaa acac 434

<210> 24713  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24713

cgatgcaatt	tgatgcttga	agccctagag	gcacatacgg	cacgtcaccg	cggatccttg	60
agagcctacc	tgcacgcacg	catgtantgt	atttagcgtg	aacgtgctat	gaagtcctct	120
tatcgaaaca	tgcaaggtga	ctgccgacag	gtcccaatct	taccaaggta	aactgagtac	180
actatccgaa	gacaccatga	gtccgaactg	tggtgtctaa	tgaacgaact	aaatagcaca	240
tattgagggg	cgcacattga	gcgctatgca	agcaataaaa	atgacttgcc	gaacacacgc	300
gtgatacagc	caaagctaaa	catcgcttgc	ttggggactgg	acctgtcaac	atctctataa	360
caatgtatct	tataaacaag	agactgtatc	caataatgca	gtagcgtccc	tactatgacc	420
ctgcccataa	tgcccactga	gagcctcgaa	atgtaacacg	cacttatgga	attcgccg	478

<210>	24714
<211>	284
<212>	DNA
<213>	Glycine max

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catctccatc caaactaaca cacctacaaa ctagaactag ctccattatg tgagaccata	120
ataaacaaca cccatataac accactaaaa caatacatat actaaaatgg cacggctaac	180
ttatccagct ttcaataaga cctcctacta cgtaccctaa cctgcacata tcacagacac	240
cctccctccc taccaattaa gaatggacac aaaaaattac atac	284

tgcttctcct	aatttgcgac	tcttcggttg	gaaaatcttg	ctcgcttctc	agattcactg	60
ggagtcatca	ctttatttgc	ttctccta	ctctctttat	gttcagatcc	tttgtttctt	120
catctcgttt	caagatgact	cctaggtcga	cagccacgta	agtactattg	gagttgatgt	180
cgtaattatc	actcttcttc	tcttttggtg	tttctattta	tggcccaaca	ctcattctta	240
ttttattttc	agaaaatcag	aatcgtggag	ctggaatgaa	aaaccgtcaa	gctgcagatt	300
gtgagtattc	atacttcact	gacacgaatc	aatgtcttgt	accgactact	tcatttataa	360

tgccctagcaa gcatgatcat ca

382

<210> 24716  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24716

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tgccctggtaa tcgattacca aagccttaat catttggaac cactttggtg tgaggcaaaa 180  
acttgatctt gaattaatct tgaagcaatg cttgtttgtt gaagcaacct tgtattaata 240  
tagaagcaat gcttaacctt tgaatgtttg gtgaagtaat cttgaaagcc accttatttg 300  
attattcttt ggcttatcat atacatgtat tcatacatc atactctatg tgttcacatt 360  
cctcgctgt atgatgatga 380

<210> 24717  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 24717

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cttccggtcg agacttcgaa aaattttcat ttgtgatcgg ttagactaaa ggcccgatag 120  
catgcagtga cgaacgtcgt cacctgcacc tttcccgga atgtcatcgt ctaccggccg 180  
agactatgaa aatgtctcat ttgcgatctg tcagactcca agtcggcag catacagtga 240  
ctaacgtcgt catctgtacc tcttctggag atatcagcgt cttccggtcg agacttctaa 300  
aaagtctcat ttgtatccg taaggcttaa atcgcaatag cgtgtagtga ttcacgtcgt 360  
catctgcacc ttcccccgag atatatgcgt ctt 393

<210> 24718  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 24718

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tttcgaagcc atcaagggat ggtcgtttct ccgagagcga cgcgtccagc tcagggagga 180  
cgagtatact gatttccagg aggaaataag gcgccggcgg tgggcaccac tggttactcc 240  
catggcctag ttgatccac aaatagtcct tgagatttac gccaatgctt ggccaacaga 300  
ggagggcggtg cgtgacatga gatcctgggt tatgggtcag tggatcccgt tcgatgccga 360  
cgctatcagc cagctcctgc gatat 385

<210> 24719

<211> 397

<212> DNA

<213> Glycine max

<400> 24719

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ttacacaagt gcataacatc aatctaaact tgctcactat ggatttacac ctataatttc 180  
accgaatcaa aatttgactt ctcaacacct aattttgccc taaaaatggc tcttgctcac 240  
tttggtcatt ctgtttactc ctaacacatt ccaagctatc tcataagtcc tagatgacat 300  
ttctagctag aattatctca ctgtaacctc catttaccac agaatccata tttaacccta 360  
caactcttat agcctcactc tgtttctact cataaca 397

<210> 24720

<211> 301

<212> DNA

<213> Glycine max

<400> 24720

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gaataagcca tggaacaagg agtttcacca ccaacatgag ccttggataa gaagctcgga 120  
gaggatgctt ccttggagga aaagatagag ggagagaaatg atagaggggg gatcaccaaa 180  
ttgaaggaag ataaaggag agaagttgaa ctttgagttg tgtctcacia gactctcatt 240



cctcaaagat actccaaggg ttacacatgc ttctattcat agactaggta gctgtcttga 300  
g 301

<210> 24721  
<211> 156  
<212> DNA  
<213> Glycine max

<400> 24721

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tgcttagctt aaaaagcaaa tacattgtca ccgact 156

<210> 24722  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 24722

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cttctatcaa tatcggagaa taatatcttc ttgcctgagt gggctaagt tatgttgatc 120  
gaacaccagg gaacatctca ggtacacctg agacaaaacg tcagatgagc tcccacgaat 180  
taacgtatcc ggcctacaat gaagatcttc tatccccacac caaaaactag ataacttctt 240  
ctgccgtaaa aaaaaaacat cacaggccag cgagcggtttt aaaaaaaaaa tctgtagcgg 300  
ctatttcacg accgatgtcg gctaataag tttacattca atccctgaat g 351

<210> 24723  
<211> 373  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24723

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accctatcga gttctaatta tgtgggcat aaagtctatc atatgctgac aatagtcgag 120  
aagcccatga atctcttcag gggcagagta agtgtctgcc atcgcttgg ccttggttaa 180  
caatagggga agtacttgac ttccgtttaa ggaaagagca aaccgatcca tccacatggn 240

[illegible]

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<223>      unsure at all n locations
<400>      24724
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<210>	24725
<211>	413
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      24725
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cattcatgaa	agttacaata	agtgttacac	atgcttctat	ttatagacta	ggtagcttcc	180
ttgagaagct	ttcttgagaa	aacttccttg	agaagcttct	ttgagaaaac	ttccttggga	240
agctagagct	tagctacaca	cacccctctc	ataactaagc	tcacctcctt	gagaagcttc	300
cttaagaaga	ttcctaaaga	agctaaagct	tagctacaca	cacctttcta	atagctaagt	360
tcaccttctt	gagatgagaa	gctagagctt	agctacacan	cccctataat	agc	413

<210> 24726  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24726

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 gtcctttaat ggtgattttc caccatggag atgcagcgga agacaaagga aaggagggtga 180  
 gaggaggcgc catccattaa ggaataagcc atggaagaag gagcttcacc accaagatga 240  
 gccttggata agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa 300  
 gagggagggg ggagcacgan attgaaggaa gaanaaggga gagaagttga actttgagtt 360  
 gtgtctcaca agactctcat tcatcanagt tacaacaagt 400

<210> 24727  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 24727

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 cttctgtgtg ataagttatg accatttgaa tttctcgaga gcattcgttg ttcaattcca 180  
 agcttctcga tatattgtgc acctgaatcg gacttccgtt tgaagagtta tgaccttttg 240  
 aatttctcga gagcttccgt tgttcaattt caagcttctc gatataattat gcaccttaat 300  
 cggactttcg tgtgacaagt tatgaccatt ttaatttctc aagagctttc gttgttcatt 360  
 ttcgagcttc tcgatataatt atgcacctga atcggacttc cgtttgaaag atttga 416

<210> 24728  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 24728

agtttaaagg ttcactcaaa ctgggtgtat ttagccccaa ggcctagact ccaaagagtc 60

cgtcaggggc	tctccctcct	gattcaggtc	caaccagaa	aatattttaa	cacgtagact	120
ctatctatga	actatacaaa	acacacgact	cctcaattgt	tctcaaaata	attttaactc	180
gtcatgcctc	aaagtgatta	tacttggtga	gttcccatag	tggatcccat	cacaatactc	240
gtcgcacatt	aactcgtttc	ccgtaaaggg	tcttacaatg	gtgtgattgt	acgattcata	300
acttataact	caatgcacat	aacatgtcaa	tacatgtgtg	atctcacaat	ataacacata	360
cacaacttat	cacatacacc	caatctcctt	cactatatta	taatg		405

<210>	24729
<211>	429
<212>	DNA
<213>	Glycine max

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tgagaaaagt	gtaaaaaacg	cggttttgta	gattaaaaca	aatgccattg	gagctaacgt	180
ggaaagacaa	agaaattaac	aattgcatat	aaaaaggggg	tttctgttgg	tagacaatat	240
tgtaagagaa	tagtgttgga	ggaaaatacc	ttaatttgaa	gtaaacatgg	tatccaaacc	300
tgtggccaac	togatgcttt	ttctgaggat	tgttgctctc	gctgcctcag	ctgcaactgt	360
ggccttacta	tttactaaca	agggtcaaatt	tgatgatgga	acatagttga	gatttcaaga	420
tttctatttc						429

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<223>      unsure at all n locations
<400>      24730
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atcatcttat ttttatttta tttcttggtc taqaaataaa aaataataat atatttaata 360  
ttcttattat atctatacaa tttttttaat aataatat 398

<210> 24731  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24731

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tgctgttcaa actccaccct tactttctat cttatccttc acatggatca acaatttgac 120  
tatctgcatt tgcttttgaa acttctctcc ttagttcagc aaactgtctg tcaagcccg 180  
gctttaactg cctaaagatt ctagaccgac ctcccttgcc agtgcttttag catctatcca 240  
gatctagttg gaggtcagga aaagatcctt agcttccaaa acctgtgctt catttctcac 300  
ctaacttcta ttcacatagg aatcttacat agatagatcc cttcttcatg tggtttctct 360  
tngatcatag aaaccttctg 380

<210> 24732  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24732

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gcacaaaaga gaaaataaat aaagttaaga cacaaaaggt tacattgggt catctcaacc 180  
actaagacta cattcagttc ttggtaaacc accaagttcc actaacttca acaagttaca 240  
agtattaatc actgccactt ctaactctac aactcanact ctacaccaag cttgttataa 300  
ccagtattgt ttgccctacc aagccattgt tggctctaata agaaatcaaa agaatttttg 360  
tttggctntc agactgacta acactccatc atcataaaga tgaata 406

<210> 24733  
<211> 432

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 24733  
  
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 aggcaaaaga tcaagaggag ttagtggggt aaaaccataa acaggagaac aattagtgggt 120  
 gctatgaaca gctctattgt aagcaaattc aacatggggt aaataagctt cccaagtttt 180  
 taagttcttc ctcaaaactg tcctaagcaa agttcccaaa gtcctattag caacttttgt 240  
 ttgcccacgc gtttggtgggt gacaagtgggt tgaaaataac aatttactgc ccaacttgct 300  
 ccacaaagtc ctccaaaat ggcttaggaa cttagagtcc ctatcactaa caatgctcct 360  
 tggcaaacca tggagtctca caatctcctt gaaaaacaaa tcagccacat gggaagcatc 420  
 atcaactttt tt 432

<210> 24734  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 24734  
  
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 gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tggtgcccac 120  
 ctccaactga gctcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180  
 ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca cacagcacia 240  
 gctatcacag ccaagcaaaa caaagcaaag gcagaaaact ctgccaaaac accaaccaaa 300  
 aatcacagct tttcccactc aaagacccca gtaacaattc cttcgatcca atttgtaac 360  
 cggtggatcg actccaaaat tnttctggaa gtctatagtg cataagcct 409

<210> 24735  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 24735



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 aaaagaaagg tttccggaac aaaggaaatc aaagcttcaa ccaacgggag atggaccatt 360  
 tcaagtgctt atagaataat gacaatgtta caaagtgagc tgccggtg 408

<210> 24738  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 24738  
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 acccggaatg ggtttaggca aagacaacga cggcataact agcctgataa atgccaaagg 120  
 aaatcgtggg aagtatgggt taggctataa gccactcag gcagatataa agagaagcat 180  
 cgcggaagg aagagcggta gtcaaagctc gcggttgaga caagaagggtg aaggaagccc 240  
 accctgccac ataagtagga gctttataag cgcggttctg ggggacgaag gtcaagtgg 300  
 cgcgatatac gaagatgatg ttccgagtac attggatttg gtacgaccat gccctcctga 360  
 tttccagctg ggaaattggc gagtggaaga acgcccc 397

<210> 24739  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24739

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 atcatctccc aacaacatct ggaagaaacg gtcaatattc tttgatcttc catattgggc 180  
 tgatctacat gtgcgtcact gtctagatgt tatgcatgtg gagaaaaatg tttgtgataa 240  
 gtcaattggg actcttctta acattanagg gaggacacat gatggtttga aatattgtca 300  
 agacttattt gacatgggaa tacgagagaa gtcgcatccc ata 343

<210> 24740  
 <211> 404  
 <212> DNA  
 <213> Glycine max



<400> 24740

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atgctgtccc tatacatata aaacagtccc acaatcccaa gcttacaaaa ccattgcccc 120  
atgtcattga ggcatttcac cgagcacttg gtgggcgcac gttttggcat gaatagcaag 180  
agaatggggg caatgtggca tgccccatta ctccagaatg caacataggc ctaggggccat 240  
cccatacaac cccctaactc acaccaatca agcatgaaac aaagccaaaa ttgccccata 300  
gacttgggca cattcccaca atttatagca ccaaagaag accacaatac atcaatggaa 360  
agctagaaag ctaaaggatg agatacttac ttgatggagt gagt 404

<210> 24741

<211> 434

<212> DNA

<213> Glycine max

<400> 24741

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tttgaccccc cattttgact aagtacaccc cctacctttt ttggtgattc ttttttcgta 180  
aaggtaccga tacttacgaa tttcgtaatg atacttgttt tctttccata atgttacgga 240  
accttgcgga ttacataatc atcccccttt tgacttacag aatgttacgg aacctcacta 300  
attgtgcaac gatgcttcca tttgatttcc ggtgtgtcac ggaaccttac agattgtgca 360  
tcaatatattt cttttgtttt ccggcacatc ccggaatatc acaaattgcc taatgatggg 420  
tgcccagcac ctca 434

<210> 24742

<211> 388

<212> DNA

<213> Glycine max

<400> 24742

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tggatgacgt tgctgcttag caaaattctc cctagcgacc ataactcgga cctcacccta 180

ctaaagtgtc agctgggtcta caccatactg acacatgtga gtgtacatgt ggctcagctg 240  
atctctgatg ctatttacca gtttgcaggg attgtgcgta ccagacaccc ggtggacccg 300  
gagaagtcca acagggcctt gagatttcat gctctgatta taggcctctg tcagttctat 360  
ggagtgtcgg tcacccccag caagctta 388

<210> 24743  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 24743

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gaatgctcag gagaaaatga gaggggatgc tccctccaca agggaataaa ccatggaaga 120  
aggagcttca ccaccaagaa tgtgccttgg atagaagctt gaagaggatg cttttatgga 180  
ggaaaatgac agagagaaaag ggggagcacg acattgatag aataaaagag ggagagaagt 240  
ggaactttga agtgtgtctc ataagacttt cattcatcac agttacaaca agtggttacac 300  
atgcttctat ttatagacta ggtagcttcc ttgagacgct ttctagaaaa aacatccttg 360  
agaagcttct ttgagaaaac ttccttgaga agctaaagct tagctacaca ca 412

<210> 24744  
<211> 331  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24744

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tgacgatgtc caacgttggt gtggagagaa accccaacgc agagatcttc cactgctga 120  
attgcatctt gttgactcat aactgttaca atgtcttccc tggctggggc attgacggng 180  
tcatgggtcc agtgcatgtg tcacgcaaga ggccatggca gcaatgagaa tgatgagggg 240  
gacgaagaat agagaacgcg atgggtgatga ccacaccatt ggtgaacaca agactgagag 300  
agagagagag agataagtaa gaagggacac a 331

<210> 24745

<211> 383  
 <212> DNA  
 <213> Glycine max

<400> 24745

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 aatattcgct gtttggttgg gtcggagact acacatattt attggtatta acaattcata 120  
 gacattttat tgaatctcat tccaagtcac ataataatat ttacatttat ttatgttatg 180  
 cattcgaaca ctttcaagca catatgtaac atatacatat atattgctac caataatctc 240  
 aaagtattca cattaattta atcctaagac ataaactctc aatcctttta tgacattcta 300  
 taataatatt aacaaaaatg agcaagtgc attgtaaata gcataaatga gtggccaata 360  
 acaattttca gaacttcctt ctc 383

<210> 24746  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24746

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 aaaccgaggg gcttccgaaa cgttttcgtg aggaatttcg cgaactttcg accattcttc 180  
 gacgttcttc attcgttctt catcgttctt cgatcttcaa cgggtaagta cctcgaacca 240  
 agcttttcga ttcattctat gtaccctggtg tggttcacat tgtgtttcgt gtatttttat 300  
 tctcgtttca tttactttnt atacccctt tataaccccc ctntcaacgg gccatttatt 360  
 taagtcattt ctcgc 375

<210> 24747  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 24747

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 agtattgaac acaggggaact tgttcattta gcaaagtttt gttaagtaag caggcatttg 120

caaacaaaaa ttaatgattg tgaattaaag caaaagtatg ttctatccta agtaaaagca 180  
 ataaacgaga acaagtaagt gtgaaaacaa atatctaaag gcgttgggtc ctctactga 240  
 gtaagttgat gcaattaaag atgtttttct aattaaagat gttcctgtgt tctatgctga 300  
 ggacaaaaga ataccaaaaca ccaattcctc tagagtttgg attaatttaa atcaaacttc 360  
 gttcgcagat cctcttgtt gaacttagcc taatttaaag agcattatac tcacaacata 420  
 tc 422

<210> 24748  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 24748

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 agagagaact gcccacgc tagtgcaaga cacgtcggtc tccaccacaa agggaatgtc 120  
 gaagttggga agcgccaaga cgggagccgt gaagactgct tcctttaagg tggatgaatgc 180  
 tctcgtagcc aactccgacc accagaattg acccttgac agcaactgtg agagaggcgc 240  
 aacaatctta gcgtaacctt taataaatct tctgtaaaaa cccaccaaag gcagaaaact 300  
 tcttaatgtc ttcactga 318

<210> 24749  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 24749

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 aaagagaagt tcaagtccat aaccatcaaa gtctgaagag agtatgatga actaagggac 120  
 gtcaatatgg ccaccgatga agccttggaa tgagaaacca agaaggcccg aaaggaagaa 180  
 cacgacaaa acaagttttg aggggcttta tagggtagca atagttagct caaactctga 240  
 agaggtgaaa ggaatcatca cgggtcaaag gcatgatctt gaaggacgag ctaaaagctt 300  
 gccttatgtc aaaaagaaat ttgtcccaac agttaagcga gactgaaggg aatatgtggg 360  
 ccatcatcga tgagtgcaaa gagaagctaa atctagcagc gactcatgag c 411

<210> 24750  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> . 24750

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 tttctatgct tgaacaaaaa ttgattgggc ttgaatgttt gaaaagcatg tatgaaaatg 180  
 atgaaacttt tgaagaaatt tttaaaaatt gtgaaaattt ttcagaaaat ggtttcttta 240  
 gacatgaagg ctttcttttc aaagaaaaca aattgtgtgt gcctaaatgt tctactagaa 300  
 atttgcttgt ttgtgaagca catgaaggag gtttaatggg acattttggg gtccaaaaga 360  
 ctctagaac attacaagaa acattttatt ggtctcatat 400

<210> 24751  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 24751

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 accattaaag gacctcattg aagctcatag atccagcctc cataaaagct ccacaggcaa 180  
 gcttccatca cattggcccc gcaccagga gtgcttgccc ctaaatccct cctctatgga 240  
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 aagttgagtc cactgcctcc tggcaatgct ctctagaat tcagcatatt ctcttgct 360  
 taattggacc cgcctctcct tgagaaaaga ccaacccttg actgtctcac aatggcgcta 420  
 gtgttcatcg 430

<210> 24752  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 24752

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 tactgcatca tctttatcag caaccttcct ttgtttgggc cttgttatgt ttagcttatt 180  
 ccttgctact ggcggaacaa tagatgtagg gacctacatg caaatgccaa acatgaataa 240  
 cacttgtaat atataagaat ggagagctgc aacaaattat gatgagataa aaatattctg 300  
 ccgcgacata tattgaccat gaactccatg tcactatcga gacaaattag gctgagatac 360  
 attaattctcc acaggacctt cttgaacatg agcagcacga atgca 405

<210> 24753  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 24753  
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 actacacttt tcatgaatca tacaaaaaga tatttattta taaaccaatg tggttttata 120  
 aatcacgaga aataacttga ttaaattaaa tcatggcttg aacgacataa tacagaaaga 180  
 ttctatgtat tcatttgata ggaaatgaaa taaagatctt ttgattatat actaataata 240  
 ctaaagaata tttgagttca tcctcagctg agagtaccta cgtagagaca gtgaagtttt 300  
 tagactgacc atcgtctttg tgcttact 328

<210> 24754  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24754

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 aaccaagacc tcatttatcc aacttcattc tttttctttt cttttttttt gaatatTTTT 120  
 tttctttttt tgtatacttt tttgaacgtg aacagtagca attgaaagca tttgaaaaat 180  
 aaagcagcca ttaggcagtg tatgtatata tcatcaagca tggccaataa aaacatatca 240  
 tccaatgaaa catacccccc ttcacactta ttcccaaac aattccaaag ctccaaaatt 300

ccttaagggg aggggtgaaat catgggttttt cacttaaggc ttgtaatgag cttcanaaca 360  
tagaaagggg aacataggct canaggggct atc 393

<210> 24755  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24755

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caaggtctga gagaccatac aattttccta acgatttcta attatgtggg ccattaagtc 120  
tatcatatgc tgacaatagc cgagaagccc atgaatctct tcgggggagg agtaagtgtc 180  
tgccatcgcc ttggccttgg ctaacaatcg gggaagtctt tgactcccg tcaaggtaag 240  
agcaaaccga tccatccaca tggatgcctc ttggtgtaaa gagacgatca cccttcctct 300  
agcctctttt tccgcataca cttgagcata ctcatccgtg attctatgct cgtggggccgn 360  
ggctagacct aactcttctt ggtacttggc gatgatagct aacatgttgg tctctgtctc 420  
gcataaacgc t 431

<210> 24756  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24756

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tgccaatcaa ggttgtctca cagacacctt ttgagttatt caaaggttgg aatcaatgt 120  
tgcgacatat acgcgtctgg ggatgcctgt ctgaagtaag aatttataat ccacaagaga 180  
agaaactaga ccctatgact attactacgt atttcattga atatgctgaa aggtctaaag 240  
ggataagtt ctattgtcca tcccactaca ctacgattgt ggaatcaagg aatgcatagt 300  
ttcttgaaaa taacttgatc agtgggagtg atcaatttcn gaacatttct tctgaaaggg 360  
atcactatga 370

<210> 24757

<211> 172  
 <212> DNA  
 <213> Glycine max

<400> 24757

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 ttactaaaaa actatacaac atatcatgca ttatggagtg aaactaacta atgacccaaaa 120  
 agtaatcctt gcatcgcttt tttattgatt gataaaaaac aataaattta ac 172

<210> 24758  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<400> 24758

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 attcaaactc acaaacaaga aataatcaaa ccagaatcca aataactgaa aatgtcaaca 180  
 accacaaaat atccaagact gaaatttaaa aaccacaaga taaataagca aagtacttag 240  
 cataataatg taaagtctaa gaaactaaaa gccaaaatac acgggttata aaaaatatat 300  
 aatcagaaac taaaatctaa gaagacggag gtgggtgggtg aagatcgaaa ctctgacgaa 360  
 tgtatccaac atcctcttca agctgtgtaa ggccaatgtc cataccgg 408

<210> 24759  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 24759

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 agaagaatgt gacattcact tgggggtgaaa gaaaagagaa agcattttct ttgctcaaag 120  
 aaaagctcac caaggcacct attctagctc ttctgattt ttctaaaact ttcgagctag 180  
 aatgtgatgc ctctggagtg ggtgtgagag ctgtattgtt gcaagggtggg caccctattg 240  
 cttatttttag tgaaaaactt catgggtgcc cctcaaata cccacctat tataaagagc 300  
 tttatgcctt aataagagcc ctccaaactt gggaacatta ctgtgaataa tgcaggtttt 360



gatgatgcta aaaagaaatc acttgataat gattgtcatc atcaaaaacg cggagaatgt 420  
gaatgtatga ataca 435

<210>	24760
<211>	403
<212>	DNA
<213>	Glycine max

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tttgagcac	taaaagggtgt	tggtgaaatc	aaaatttaat	gcgataatct	ttatttggaa	180
gcggtccaac	cctggcactc	acaccggctt	tttcgggtta	ataccggatt	gatgatgtaa	240
gcaccggtct	tcgattcccg	gttagaccgg	ccggaccggt	ccgtttaaat	aacgctgcac	300
agaagcctta	tgtgtagcat	aaccatattg	tgttatgcag	cgtaatcata	cccaaattcat	360
cggatattat	tacatttctt	attttcgtga	acggtacaaa	cct		403

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<223>      unsure at all n locations
<400>      24761
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<210>	24762
<211>	400

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24762

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tggtatagtg gaagctatgt gtgaagtaca atggatgtac tggcagggtg ttgaaattca 180  
gggccactag tggctagttg tgtagtgaa atatcatttt taagggtgag gacaagacgt 240  
agcccaaggt tagggtgagc tagtataaaa atcatcgtgc actactctct tccctctctc 300  
tacattgatt ctgnttattg atctcttgac tagttntgnt aaatccttaa gacaagaaaa 360  
ccattcacac atatatccaa aattgaacca ttttatcaaa 400

<210> 24763  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24763

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tcacgtgaaa aagaggatga gttctgaatt gcaaaaagtt gcacctgggc taaacgctta 180  
ttcacgcta agcacagctt cagtgcgctt agcgcaaaag agaactctggc agagcatcag 240  
catcaaagcc gcaccctaag cgcgagatca atgcgctaag cgcaacaggt gccttttagcc 300  
aggctcaacg caagactggc gctgagccca attccactta ctcgagctaa gcgcgagggt 360  
ggcactaagc gcaagggttg gtattctgag cctattttaa g 401

<210> 24764  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 24764

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tcgggtgaaa aacatcagtt ggggctgttt aactaccgat gctggctact gttttttcta 120

ttccaccct gaataatact tggacgatgt cgatttggaa atgttcgatc ggagtcaccc 180  
 ggtcatgctt ctttttaaga cctcgatctg tcatcttttc ctggccgacg tcggctagca 240  
 tttttttcga tcaatatcgg tgaatcatgc tttttgcaa ggtgggctaa cgttttcgtg 300  
 gctcatgaaa tgagagcatg ccagtgtcgg ccgaaacaca atctcgcacg aaaaacccta 360  
 gccgacctac attgtaattt tt 382

<210> 24765  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24765

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 agttgtgttt cggccgacac cggcatgttc ttgtttactc tgccaggaac acattaaccc 180  
 acctcggcaa aacaaccatt atcctccgat actgattgag aaaaacaata gccgatgtcg 240  
 tccaggaaag atgaccgatc gaggtctaaa aatcaaaagc atcacccgat gacgccgatc 300  
 gaacatttcc taatagacaa cacctaacaa ttatcaaggc attaattaga aaaaacaaca 360  
 cccgacatcg gtcgttttaa agccccggcg gatatttctc agccaacatt gcaga 415

<210> 24766  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24766

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 tcagccgctt tgagatactt ggcacccctt ggtgcacaat aaatgaagtc ccgagacgtc 180  
 tcagaaatct aaaggaagca tgcttgccgc atccgtgaaa ttccgtaatg tggcggaagt 240  
 cgaatagagg tgtttttgcg caatccgtaa gtatccgtaa cttcttcgaa agttaaaaaa 300  
 gagtaaatac ataatccgta aggattcgta accttgcgga aggataatag gtatcgctac 360

aaaattcgta cagtttcgta acattac

387

<210> 24767  
<211> 425  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 24767

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ttaggacctg aagtgtgata acaaaccacc aagaaggatga agttgatcca agaaaggatg 120  
aggactgctc agagtagaca aaaaagttat caggataaga ggaggaaaga tctggaattc 180  
gaggttggtg atcatgtatt cttgagagtc actctgtgga ctgaggttgg tcgagcattc 240  
aaatcccgaa aactcacacc tttctttatc ggctctttcc aaattcttaa aagagtcggt 300  
cctgtggcat accaaattgc attaccccca tcactttcta atcttcacaa tgtctntcat 360  
gtatctcaac tccgtaagta tatacatgat ccatctctg acatagaaa catttccttt 420  
gagga 425

<210> 24768  
<211> 358  
<212> DNA  
<213> Glycine max  
  
<400> 24768

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tagctgctg ctcaagatcc aagaagagtt tggccaaca cttagaagcc acggagcaaa 120  
gcatgctagc tataataggg caatacaaag aggagttaaa ccaatctttg gctcatgagc 180  
aaaagctagt agaagacttc acacaagtat acgccgagaa ggaggcaaga ggaagggatga 240  
ttgatgcatt gcatcaagaa gcgaccatgt ggatggatag gttcgccttg accttaaattg 300  
aaagtcaaga cctcccacga ctactagcca cagcaagggc catggccgaa gtgtgttc 358

<210> 24769  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24769

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ggccttgatt ttctcaaggt ccacttggac cccatttcta ccaactacaa accctaagaa 120  
aactatatta tctacacaaa aagtacactt ctctatattt gcatagaggg tgtttttcct 180  
aaggactgaa agaacttgtc cgagatgtcc taagttatca tctaggctcc tactgtacac 240  
taaaatatca tcaaaataaa caactacaaa tctacctatg aaatccctta agacatgatg 300  
cataagcctc ataaagggtgc ttggtgcatt agtgagccca aaaggcatca ctagccattc 360  
atacaaacca aacttgggtct tgaaagcggg tttccactca tcaccnttt catcctgatt 420  
gg 422

<210> 24770  
<211> 387  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24770

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ccgttgatgt gcacaaagcg cattgagctc acttagcgcg atgactcctt tggcatttct 180  
tcaaaatacc tcctttttgc ctaatattaa agaagattta acattaattc catataaaga 240  
ggctcttact gagcatagat cataacaaag caatattatt tacaatccac caaaaagaac 300  
cataaatggg agatttatat acattgtgga atacctttct atanaaaagt tagtggtaaa 360  
tgacgactaa caaatgtctt cattctt 387

<210> 24771  
<211> 410  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24771

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atttttcacc atagagatgc agcggaaggc aaaggagaag aggagagggg aggcaccatc 120

cactagggaa taagccaagg aagaaggagc ttcaccacca agaattgcct tggataagaa 180  
gcttgaagag gatgctttaa tggaggaaaa gaaagagaga agggggggagc acgaaattga 240  
aggaataaaa gagggagaga agtgggaactt tgaagtatgt ctaacaagac tctcattcat 300  
canagttaca accagtgtta cacatgcttc tattcataga ctaggtagct tccttgagaa 360  
gctntcttga gaaaacttcc ttgagaaagc ttcttgagaa aacttccttg 410

<210> 24772  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24772

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tcacagatca atcaaagaac aactcatgcg atcaagtttag aatcaagaac aattcaagag 180  
ttcaagatag aatcaagaag aattcaagac tcatgacgaa aggtaagagt caagaatcat 240  
gattcaagggt tcaagatctc aaaaatcaag atcatgattc aagactcaag attcaagaat 300  
caagagaagg cttaatcaag ataagcacga caagtttttc tcaaaaattg agtagcacat 360  
gattnttctc agaacatggt tacc 384

<210> 24773  
<211> 352  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24773

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aacgctttct aacctttggt aaccgatgga tcttctcgaa atttggactg caactttaca 120  
agacactttt ccatgatctg accgttggga tctttgagaa aatatctgga gtgtactcga 180  
agcttccggt cccgagagta tttcttattt aagcactgta gcctttgctt tcatgtatct 240  
caagaaaaac aacatttctt cttctatctt tctttcaaag ccatatataa agttccaagc 300  
gctttctcca tcatccacag ccaactattat ccaccacaaa ccatcattgt tc 352

<210> 24774  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24774

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 atcatgacaa aagagcattt gcaagagaaa ttcatgtata caatatgatg attttggaaa 180  
 cctatataag aaacaatatc gtttataaaa tatacagctc atacctcttc agaaccctaaa 240  
 ggagggttgcc ttggttttcc ccatactaac gataaattat caaactgcca gaagagaaaac 300  
 aaaagatgat gtcattaata ttatacagtg taaaatggaa caggggaaat aaaggcccta 360  
 taaatttttg caaatatgag cagtatcata natcaattca taacaata 408

<210> 24775  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24775

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 tacaagctgg gcgaatgcaa catgccaaaa gagacgggag gttgcctgca ctttggcata 180  
 agcctatgat caaagagctt caccaccaag agttgccttt gattagaaac ttgtagagga 240  
 tgctctaata gatgaaaaga aagagagaat gggggagcac gaaattgtag gaattaaaga 300  
 aggagagaca gggaactttg aagaatgtct atcaagactc tcattctctt aactcacaag 360  
 cagcgttacc catgcttcta ttctagaca acgaagcttt cttagaaaac gttcttgaga 420  
 agacttcctt gagaagctct ttgagaaaac ttcttcgcca gctaaacctn 470

<210> 24776  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 24776

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tgtagagctt aaggctggaa ggttggtgtac tctcttgtct agttgttgat tgtaaaatac 180  
tctaacatgg aatcctttat actagaaaaa tattattttt agtaaaagga tatttttagat 240  
taaaaaaaaa aggaaaggaa ggtgtattta tcaataaaaa gctataaata gcaatagcct 300  
atgcgaaaag tcctgtggtt ntgcaggagg gtgggttaag aaccaacat gaacatactc 360  
tcggtgcatg taagtatgga ttt 383

<210> 24777  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24777

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gatgtcttcc tcgcctgata cgatgaccag atgcccttcc actacgaatt tcaacttttg 180  
gtggagtgtt gagggaaacaa ctctactga gtggatccac gggcgcccca acagacagct 240  
gtagggaggg ttaatatcca ttatttgga agtaacttga caggtgtgag ggcctatctg 300  
tactgngaga tcgaactctc ccctaacctc tcggcgggtg ccgtcgaagg tacgaaccac 360  
cattgaactt ggttntaagt gggaggcatt gaatggtaat ttct 404

<210> 24778  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 24778

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gcagggatca aaagatcaac aaacgatagt ccctgaatga aattagggtta tgacacaagt 180



aattttcaac tgtagtgtga tattgttagc attttgtttt gtttgtggta gtttcacgtg 240  
gactcgagta caagtacttg cgatgactag aactctgttc tagtaatgtt ggcacgatgt 300  
tgagatacgt gtaacgtgag tgcgtgatga gacacaaaaa gtgtgagatg aagagagtct 360  
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atta 424

<210> 24779  
<211> 384  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 24779

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ataccagtgg caacagttgg tattattatg attccaagac caaagcctat ttgaaggatc 180  
attcagatta ttcttaaact tcataagtgt ctcacgtca cttgggatgc acacactctc 240  
tctgcaaggt aacctacata accaaaggtg gagaaagaca agaataataa tggaggagga 300  
attcatgac acacaagaat atatagaana caagtgtagt tgttggttct gcatataaat 360  
catcaaactt ctattatnta tact 384

<210> 24780  
<211> 409  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 24780

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tcacaaaaca aacttctata tgttggactg tctaacacag ggattttaga ttctattccc 180  
acttgggttct gggaagcaca ttctcagctt ttgtatttaa acctctctca taatcatatc 240  
catggtgagc ttgtgactac aataaaaaat ccaatatcta tccaaactgg tgatctaagc 300  
acaaatcact tatgtggtaa attaccctat ctttcaaagc atgtgtatga cttagacctt 360

tcaaccaatt cattctctga atccatgccg gattttttat gtaacaatc

409

<210> 24781  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24781

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gatatagaga ttaaattgaa attgaaagat ggcaagtata gcacatcttc taaatgtaaa 180  
aactccgtaa atttgactgt tctagagtgt gtggctatga cttgttgacc agtangtagg 240  
cgaactacta tcggatttat ttctctatat gtagtataac aagtcaatga ggaggcaata 300  
tgatctataa aactagaatc caaaatctat gttgcagctt caggcttttg aacattacaa 360  
acaagggata gtatattacc tatgc 385

<210> 24782  
<211> 418  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24782

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gcggaacaat tccacactct ttgagaaaaa atgcaaaagg tcctggacgt tctcttgatc 180  
catcatattt gccattgtac tcgccaccac gatcagattt gagagcctta attttctttc 240  
caagttgaag ttcaacttta tgcttgaaac tcttaaaaag tctagggatt gggacttcgc 300  
atgcatacaca tacaagtaac cgtatctaga gtagtcatct atgaacaaga taaaatattg 360  
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<210> 24783  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 24783

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 gaactaaaaa aaacaacagc atcaatggca tcaaacaaaa gcatagtgcc aaaccaaata 180  
 acttatagaa cattaagaag catgagtttc tagattcatg ataataccgt aacaaaagaa 240  
 gaaacttccc tatttactaa tttctagaan agccatgagt tttctattca gaatcccaca 300  
 ctctcacgtt ctgtttataa ggacaataaa aataactaac aataatatgg ctttgccact 360  
 tctaaaattg canatcagta caccatacga acccaatgat 400

<210> 24784  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24784

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 gagtttaaaa agcaatcgaa tcatcaatca tctttgaatc atctatcttc aatcttttnc 120  
 acatcatctc tcaaacatct ttcaatcaat ctttcaatat ctttctacag aatttttctg 180  
 attcatttct cttcatcttt ctaaaatttt gttatcaaca ctttttcttc cgagaaaagt 240  
 tcttcgttca aaaacttggtg gtattcatct tttgcattct cttttccctt tgccaaaaga 300  
 acgaaagact aaccgcctga attcttttga gtctctcttc ttccctttcc cttaagcaaa 360  
 atatgtcaaa ggactaactg cctgagatat ctnttgtttc ccctttacaa agattcaaag 420  
 gactaaccgc ctgagaat 438

<210> 24785  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 24785

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 acaaagccta gacataatgg ctagtgtgac tcttatcgac cgagaatgaa tgattgagat 120

ttggaacatc ttggagaaag gctcactcct ataaaatcca acaataacaa aaaagctcat 180  
aaggaatgcc aactattatg taatagaggg aaaagaccta tacaaaagag gctttacaac 240  
acctctgtta aaatgcctaa ccgaagacca atctgaatat gtgatagaag agatgcttag 300  
aggaatatgt ggaatacact caggttctcg attgatggaa acatgtgttc tcaaagccag 360  
atactactga ctgatgatga gaatagattg cata 394

<210> 24786  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 24786  
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aaaccaaatt ttaaacctaa aagaaggaca gaagattcat cctctactac aaaatgcttt 180  
gaatgcaatc aacctggaca tttgagggtc gattgcccac tcttcaagaa aagaatggag 240  
aaatctgaaa agaaaaattt cagtgaaaag aagatgaaga aggcctacat cacatgggat 300  
gaaaatgata tggaatcatc tgaggattca aaaatgaaga gataaaccta tgtctaata 360  
ctaaaagtta tgaaagcgat gaagagttaa catctacaaa taacaattta tccatttctt 420  
ttgatgaat 429

<210> 24787  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24787

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tttatttatt atgagatatt atatattttg tcattgataat atatttttaa tttgaagtat 180  
gaattaatca atcaatttat gttagttata tatataattt aattttttta atatatatcg 240  
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<400> 24790

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 tgggaagagt agtgcagaat gagttatgga tgtttgctag tagatcacia cggtaaaaa 240  
 gtaggattat gtattagaga ctcccagtag aattttcgag tcgatccaac ggtaaaaaa 300  
 ctggaacaaa ggaattgtta ctggggcttt taagtggaga aagtgtgatc atggttggtg 360  
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<210> 24791  
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<400> 24791

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 acttcggtta aaataaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240  
 aagaggtaaa aataatataa taatcaaaaa aaaaaaaaaa acatctttta gtaaaataaa 300  
 ccggaaaatc aatcggacgt tttctctttg ggattttctca ttcttaatcg aattgagtaa 360  
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cctaccatat ggttatacta tatactaatt gctgagcaaa aaaaaatact atatactaatt 180  
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 ctcagtggat gatttttatg ccaactacat caaaccaacc attgtaaatc atatgttgac 300  
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 aaagaggaaa gctagagatt ttctttttat gtgaaggagg gaagcttgac attttgtttt 240  
 ttctggtcga ggagggaatt atatacatga ggtaaataat tgaaaatttc gatacttaaa 300  
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<223> unsure at all n locations  
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 agttattatc atcagcagta gcatcagctg cccctgagcc cttttcattt ggatcatcca 180  
 tagacaacat gtcaaaaagg tccgtagcat agtcaacttt tgaaggggaa ttttgtgttg 240  
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 <212> DNA  
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<400> 24795

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 acaaattatg gactagcaat gcttgcagag gaaggtgcat ctcttgtctc ctttattgac 180  
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 gttatgctaa taatgatttg gtagaccctc tggaggatga actgatccta tatttcttcc 300  
 ctctctttat tcctatattt ctctttattt catgaactag gaatacgcaa atcttttagat 360  
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 aaaggagaca tagagagaac attctgttat tttctaactt tttgcttttt ctgttgctc 180  
 aataaacaaa tagatcttgt tttatatact tacctagcta cgtccagcat ttgcttggtt 240  
 tattgtgttt agtgtttctt acatttgcac gcatactcat atccactgtt cattcatacc 300  
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<400> 24797

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ctatcttcan gctttctatg ta 382

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<210> 24801  
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<212> DNA  
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<400> 24801

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ccacatcaat cctaccaagc ttccccaaca tccaggtaaa acaacattca tacataacaa 240  
actatcacag cgaagaaaac agggcatagg cagaagctct gcccaagaca cgactcataa 300  
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<210> 24802  
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[illegible]

<210>	24803
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<212>	DNA
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<210>	24804
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10375

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 aaacaccctt gtcgaccaca aaaagataaa aaatacaaaa ggcatgaaaa gacatataaa 300  
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 <212> DNA  
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<210> 24807  
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 <212> DNA  
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aaatgaactg gtgaggatgg aaatggaaac cgaaatTTTT tctaagtttc aaaaacacaa 240  
cattgagcat gaggataaac acgcggtttg gctatatagt gtaaaaaaac ccagagaata 300  
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<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

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<212> DNA

<213> Glycine max

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<223> unsure at all n locations  
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gttggacttg aaattttgta tgatttgtag atgttcttgt tccttttagt accaacaatcc 300  
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<212> DNA  
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aaaacctata cattttggct agatccatgg caatgtcaaa ccatgagtac tctactattt 300  
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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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aagatcaa at agtaatttta gcagaaaaga gaaaaagaag caaaaaaaaa aagataagca 180  
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 gatgtggaga attgttttgc accatcgccc gaccaccacc tagtaccaca tgtgatgggt 180  
 accccataat cctacgagct tgaattgatg aagtgtataa tgggtgaaact tctgctttt 240  
 attcgttgac cacagagtgg tacctagaga tatgttgagg gggtaagag acctgtgga 300  
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 <212> DNA  
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<400> 24817

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<400> 24818

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 acatg 365

<210> 24819  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24819

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 tacttatacc ttatcaaaat caaaataaac cattaactca aattagtaat tntcaaccct 180

gtacatgttt agttcaattt aacttatttt ctttaaataa taattcattt tttagtttaa 240  
 ttcttatata tttttaaggt tctcactgtt atatgttatt tctaaaataa tcattaataa 300  
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 aa 362

<210> 24820  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 24820  
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 gaagatgtcc agattgcaac tcttggctac aaaattcgaa aatctgaaga tgaatgagga 180  
 agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240  
 gggagagagg ataacagatg aaaagctggg gagaaagatc ctcagatcct tgcctaagag 300  
 atttgacatg aaagtcactg caatagagga ggcccaagac atttgcaaca tgagagtaga 360  
 tgaactcatt ggttctcttc 380

<210> 24821  
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 <212> DNA  
 <213> Glycine max

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 ttcttttaaac atttacacac tctctctctt tggcagttat ctactgggta ttacatgttt 180  
 ctccattttt ttatttttatt gtaaaaagca acttctcatt gtaaaaagca cgtaggcctt 240  
 taaagtatcc cactttattt tattgtaaag gttgttttct ctctctcaca cacacacata 300  
 ccacttttcc cttctaaatg catttacctt tattttattg taaaaagcaa cttctcattg 360  
 taaaaagcac gtaggccttt 380

<210> 24822

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attacaacg	aatttttagg	atttctcttt	taagaaaaga	gtagatttaa	atagcaatcc	180
catggaaggg	aagttattgc	cagcagatgt	tctgcccttt	cacctccata	aacacagaag	240
acactgttgt	tggttgattt	gtacgtatac	aatacaatct	tccacttgaa	ccgaatctaa	300
cagccttttt	tacgtgtttt	gtttatattg	atcattgccc	catctttaac	caacacaata	360
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<223>      unsure at all n locations
<400>      24823
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aatatgcttc	atggaattgg	gatgaagaaa	aagtggagaa	gaacgttctt	ataccgcgtc	180
aactacctca	agaagaagat	gaggaagaag	accaggtga	accactttca	cctccatcac	240
aacaacaaga	tcaagaacta	tcatcaccag	agtttactcc	aagacgaata	agatcttttg	300
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<400> 24824

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gatgctagcc tttcggggca ccccaagtgc ctgagaatgc tcatagaatg atatttgagt 180  
 agttttcccc ttggttacaa attaatagata tcccatatga tgattagggt cactcctcta 240  
 ccctgcccct aaatacaccg gtactagaga tatgttgcta tgagagatgt taagggtaat 300  
 ggaaaatcca ataacgcctg agacgttagg tgaatgccaa gacctttaga caacaccaag 360  
 aggaggctctg aatgcatcaa cgttt 385

<210> 24825  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 24825

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 catccctttt gtgctgctag agctaaaacc atccggattg tgtccacact tgctaccggg 180  
 gcaaacactt cggtgtagtc aatcccttgt tgctgagcat agccttttagc tactagtcgg 240  
 gctttgagct tatcaacttc accattctca tttaacttgg ttctaaaaac ccatttcact 300  
 ccaatcttct tagcaccttt gggcaaagtt gtaagctgcc aggtttaatt ccttttgatt 360  
 gcttcaatc 369

<210> 24826  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 24826

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 taaatgtgta ctaattgaga tctaaataaa taatgcagtg cacaagaagt cagctcacac 180  
 agaataaata atcaagttat tttttggata ggcaaagtaa taaggtaga atattacaaa 240  
 gctcttgaag tctaaggcct gaatggtacg cagaaagaaa ctctcgaagc ttgacaaatc 300  
 aagacaatgt gcagctttta cattcattaa tttaggaata gggggagaaa aaactatcag 360  
 tcgttaagat acatg 375

<210> 24827  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 24827

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 ctttttgtga ctctcttcgc ccttttccaa aagaaaaaag gactaaccgc ctaaattctt 180  
 ttgtgactcc cttctccctt gtcaaagaat tcaaaacgac actgtctgag aatccttttg 240  
 attcttccct ttccctatta caaaagtgtt caaaggacta accgtctgag aattcttttg 300  
 tatccccatt cacaaagtat caaaggttta atagtctgag atctttgtct taacacattg 360  
 cagggtacat cctttgt 377

<210> 24828  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 24828

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 agaaagaacc tgctgctatc attgacagaa cgacagtcta gagagaaaat cgcgctgtaa 180  
 ccaaagtttt gggttcaatgg aaacatcaac tacctgaaga tgcaacttgg gaattctttt 240  
 atgactcgaa tcacaagctt gctcactata atccttgatg acaaggattc ttttggctgg 300  
 gaggaattga tacacgctta ggaacgtatg tagttagtta gactcgattc tgttaacttc 360  
 tgtttagttgg a 371

<210> 24829  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 24829

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tagcttaagc tctatcccct cactctatct caattttaga agttattact tgctcaatcg 180  
aactttttat ttcgtgaaat acaaattggaa taaggggtga ttaatgaaaa tttgaaaatg 240  
ctaaaactag caaattttca agtttgtgga ttcttgttct ttagccttac caacatccaa 300  
gttcagagcc gaacaacatt tgatagtata tttcaccaaa atgtgatttt tatagtgtcta 360  
gatta 365

<210> 24830  
<211> 359  
<212> DNA  
<213> Glycine max

<400> 24830  
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tgatagccgc cgatgggtccc attactgctt cccctaagct ctctgtcctt tcttcacacc 180  
gcateccatg ccttgcgaa tcccttgaggt accctcacgt ttgtgggtcac tgaaacctcg 240  
tgcgatgaaa ggcgtgatgc tttcgtctga tgacactcct ctcatgggac atccttcgca 300  
tgaagataga atcctgattc ttccttcctt cttagcgaggg aaccatttaa cagacgcc 359

<210> 24831  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24831

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ttaggtagtc ccttttcctt gagcatcgat cttagccatct ccataactgt gtgattcttt 240  
ctctcggaca ctccattttg ttgaggagaa tatgcgactg taagttgtct ctcaatgcct 300  
tcacctcac aaaatctttc aaactcgca gaggtgtact ctntgccacg atcgcttctt 360

agtactttta tccgttttcc ac

382

<210> 24832  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 24832

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gcaacataaa aaatctctac acggtaatga tgaagattag tgatagtcct ccctttctgct 180  
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acacaaaatc cttggacatc ggcaaaaaaa ttattccagc cactctctct cattgtgccc 300  
aaccgagctt tgacaacatc aactaattcc atggcattca caatattaag atcttttctt 360  
tgcaatatat ttgaaagctc gttt 384

<210> 24833  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24833

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ctcattgttg ttcaataaga ctttctgac ctctcttgag cttatgtcta gtaccatgaa 180  
caatttattt ataacagaaa gaagacaata ttacaacttt cactatgctt gacaattgct 240  
ttgtgaattg ctgagagta tctctcagtc ttttgattta tatttacatc actgcataat 300  
tgaatcccaa ccattcaagg attagatgaa ccatttacag caagtgtcca gaatttccta 360  
acctanatat atagaagcaa tta 383

<210> 24834  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 24834

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atatggtact	agcattccta	aaatcttaac	tcccctattt	cttatTTTTg	tctagtttat	180
aatgttcctg	tttgttatat	tcctatcttg	cccaactctt	gtcttgttat	ttgaagctag	240
gtgctagatt	aagattgttg	ttgcacagaa	atcctgcgtg	atgcattaat	ctgctagcaa	300
ctcatggtta	ttgattaacc	ttcaatctca	aaggaaaaga	gaagaatggc	atagaaatag	360
ttgctgggaa	agggaaattg	c				381

<210>	24835
<211>	390
<212>	DNA
<213>	Glycine max

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aatagtccca	ctctcccaat	tttacacaat	catattcata	catcattggg	gcatttcacc		120
gagcatttgg	tgagcacatg	tttggacata	aattgcaaga	ggatggggac	aatgtggcat		180
gccccattgc	ttcagaatac	agcctaggcc	taaggccttc	tcattcaa	aat	cctcaactca	240
agaaaacaag	cataaaaaca	aacccaaaact	gccccacaaa	tataagcaca	tcctcacaat		300
ttggagcacc	aaaagatgaa	gaanatatac	caatgggaag	ctaanaacat	caaggattga		360
atacttactt	gtgagagtga	ataataacac					390

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agtcttttct tgtttctctc cccatttgaa accagcattt ttcttgagca cttcattgag    60
aggtgctgcc aatgtgctaa aatccttcac aaatcgtcta taaaaacttg ctaagccatg   120
aaaactcctc acctcggtca cggacttagg tgtaggccat tcttgaatag cctaacctt   180
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agtacaaaag atgcattttt caagattggc atacaattgt tcttctctaa gcacagtcaa 300  
 ggcagatttt aaatgatcaa tatgcaaac aagtgaagt ctatagataa gaatatcatc 360  
 aaagtacacc acaacga 377

<210> 24837  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 24837

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 aaggtattta taggcgcgta taggattctc gaagcttctt aacaactaaa caactaacc 240  
 ttctaacaga ataacaacca gattcggttct ctctctccta aggctaattct ctgaaccttc 300  
 acatttgatc cgtgcttcat tctgcatggc cataatcata atctttcaag tatgctggta 360  
 tgaaccttgc tcgt 374

<210> 24838  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24838

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 cagaaataac caagttaact gattgtcacc atatatagat cgctgggtgag attgaaaaaa 240  
 tcatggaatt tatgctatag ataatatgca gtcaggaaaa atggaattaa gattagctat 300  
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 tcaccaattc acactcacc 379

<210> 24839  
 <211> 351

<212> DNA  
<213> Glycine max

<400> 24839

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ggaatggata aggaagagag agacgagatg ccacttcaag gagaagatga gtgtacatga 180  
agctcaccac cgtatgatgc cctggattag agcttggatg aggaacgaga tgaatgattg 240  
gagaggatga taagagcaca aacctgcgtg ctctaatagt actctgacaa ctgatggtta 300  
attgtcaaat gatcaacgtt gatgaaatgc acacacatgg cctctatata t 351

<210> 24840  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24840

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ctctgaaccc aaaaaccctt ccctccatg tctatttatg gaaaaagcca tttggggtag 180  
gggcagctcg ccaggaag ctagtttctt aaggctgaag gtatttcatg gcctaggcaa 240  
gctagacact agcctgngtg agctagtgtc tagaaaattc cagaaaatga ccatgtgtga 300  
ccccttggcc ttgcactgta attggtgcca aacaccgtaa tttgactagc agtgatcaaa 360  
acatcatatc cgaatga 377

<210> 24841  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24841

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taggagagca ttcattccata gataaacctt cactttttca ttcattcaca tcccatactt 240  
gcctttttatt taggcactcg gcttcatttc attattttgc agcatacaca cttattaatt 300  
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gaaata 366

<210> 24842  
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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24842

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tgatactttg cacctaagta atatgaaaaa caccttgcaa tagtatgtat atatagggtca 300  
ataaaagggg catggaaatt ctttgacagg gtgaaagaat aatgaagccc ttcctaataga 360  
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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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cacctaaccc attgatccaa agtttacatt gtcacctcta cattagtgcac tttttgttgc 180  
ctttgtttcc ttttaagcttt ttgtgtataa aaatatattt tttcttgtgt gaaatatttg 240  
tttgaatttc agttttaact atataataaa attgatgggtt aagtttaata tatatttaaa 300  
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387

<210> 24844  
<211> 303  
<212> DNA  
<213> Glycine max

<400> 24844

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attacaagca ~~ac~~caaaagaa aaataataac tgaaacttag atttatgtac tgcacacaac 180  
gcaattatta tggactatca ttacctctgc attaggtaat ctacaatcca ataagaccga 240  
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cta 303

<210> 24845  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24845

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ttgcactccc atttttacta agtacacccc ctgccttttt ttttgtgatt ctttnttcgt 180  
aaagttatgg aaacttacga attttgaac gatacttggt ttctttccgt aatgttacgg 240  
aaccttggtg attacataat catccctttt ttgaattacg gaatgttacg gaacctcact 300  
aattgtgcaa cgatgcttcc attagatttc cggtgtgtca cagaacctta cggattgtgc 360  
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<210> 24846  
<211> 359  
<212> DNA  
<213> Glycine max

<400> 24846

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 accacctttg atcctttctc tccccatcaa tcccttgtct tcgactgcaa ttgtctttca 240  
 caacatactg atacccttaa tatgtcgaaa ttaaggccat tccaagattg aacagtgaaa 300  
 cgcaccataa acatcaaagtg tgatgcatat gaccgagagg cattcactta ctactcttt 359

<210> 24847  
 <211> 511  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 ccacaggcag caacgaacac accacacacc acgggaccga gaccgcaca acaacacggt 360  
 acaagaaacg accccaaaaa caggtggaga gggcaacagg aacagaaggc aagaaacgcc 420  
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 ggggnacaag gaagcaaaa cagcaccac c 511

<210> 24848  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 24848

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 caagagtaat ttattgttga tttccatatt ttatggttac atagatatcc atattcttat 180  
 caaccaaatt ttagctaaat aaaagtattg ttttatatct taattataaa atatataaaa 240

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acaaaatatg accaaacttt aatctaaaat agtaaattaa ttaaaaatat aatgtatatatt 300
tagtacttgt aacaaatata atatattata taaatgtata aaaataaactc acttataaac 360
gtataagttt gg 372
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<210>	24849
<211>	261
<212>	DNA
<213>	Glycine max

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catttctact	aaattcaacc	ctgtctatta	ttgttgaatc	tcttttcaaa	atcttactga	180
gactgacgaa	tctgcgacga	tacttgattt	ctttccgtag	agagacagaa	ccttgtgaaa	240
tacatgacca	tgccctattg	a				261

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gctcgtcccg ggatcttaga gcgacctttt gcacgcaatc ttaatcattt ttttggatca 60
ttaagggcat ataatacgta taatgggaac acctcctttg acaagttatg atgaatagaa 120
ctatgtgaaa actactagaa acttaaacgt agccgataga taaaaattta tggtcgaaag 180
aaaaaaaaatt ctcgcaataa tctgaaagcg taagatga 218
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cttgcgataa atgatgttaa catgaatctt tatagtttcc accgactaaa cttgctataa 240  
aagctagatt ttattatcta tggatcagaa ttcttgttcc tgttcttgaa ccatgaattg 300  
cgttgagtat aggttccttt gacttcagtc ttgctatctt agtgggtgaa acctaatacca 360  
taaaattctt accaaaatat tataagag 388

<210> 24852  
<211> 362  
<212> DNA  
<213> Glycine max

<400> 24852

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cgttgtaaat tcttttgaaa actttttcaa atccattttg ctactggtaa tcgattacaa 180  
caatctggta atcgattacc agagagtaaa aactctttgg taaacatgtt ttgagaaaaa 240  
tctatgtgct actcagtttt tgaaaaaacc ttttcatact tatcttgatt aagtcttctc 300  
ttgattcttg aatcttgatt cttgaatctt gagtcttgaa tcttgttctt gattattctt 360  
ga 362

<210> 24853  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24853

agcttggtan gtgaataaaa actcaccgcc atagcaagaa aaacacattg gagtgtttgt 60  
ggttcaacgt cccagaaaat tttaacaagt ggatcatctt tcaagtcagc agtcactatt 120  
ttctcacatt tatcattccc tgcaagctca taatcagtta tagaagtaga tggtgattgc 180  
ccatcctggt tggaactaac acttggtgaac cagagacacg agttcatgaa gcacctgnga 240  
tgcagcaggt tctaattcta gcaatgtggt cctttcttta agctttttct ctcttaaadc 300  
catccctttc aacatctgac cataattttc atcagcgtga tctgaatata agattatcaa 360  
gaaagataag ctggaaattt attctt 386

<210> 24854  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24854

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 acaaagttga actgcccggg gagtataatg ttagttccac cttcaatgtc tctgatttat 120  
 ctcttttttga tgcagatgga gaatccgatt tgaggacaaa tcctttctcaa gagggagaga 180  
 atgatgaaga catgaccaag agcaagggca aggatccact tgaaggactt ggaggaccta 240  
 tgacaagggc tagagcaagg aaagccaagg aagctcttca acaagtgtg tccatactat 300  
 ttgaatacaa gcccaagttt caaggagaaa agtccaaggt tgtgagttgt atcatggccc 360  
 anatggagga ctaaagaca ccac 384

<210> 24855  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<400> 24855

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 tggattatta ataaaacaaa gcttcgctat caaattattg aactggtaaa attcgccatt 120  
 ctatgttcag ggctttatag aaaaatgttt cagctgggtat tatacagaat gtaaaaaaag 180  
 tgaacactgt ttacccaaac caccaaaagc agcaagcagc ttcccagaga ataaatgtaa 240  
 ttatttgtat ttatttaata aaaacaatca aactcctatt aattatcaat ggaatcaaac 300  
 agagtattag ataaagttta caccaaataa gttgtttcct ctacatatgt gattcttgct 360  
 gtttagattg tctatgctag tatataa 387

<210> 24856  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 24856

agcttcaaca tcagtatcac ttccaggggtg ctggaactac ttcacatgga cttgatgggg 60





cttcaaaacc caaggaagat aagggttaaga ccatagagaa atacacccct aagactagtt 360  
 cccaagaaag gacta 375

<210> 24859  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 24859

agtttgtatt gacttatacc cagattccac ggtttaccct gtagatagat agaattcata 60  
 acttagatgg catatttctc ccaaatgcat cttgagtaaa gtccattgt tatcgataaa 120  
 attgctgtaa tcaggctcta cacatgcacg gtgtcagagg gttctccac aggtcatagt 180  
 tagggaaagt ctcttctggc aatcctgtcc gtgtctggtg agtaacaaca acatcttcta 240  
 caaaaggagc ccaaccata tatggatccc caaaagactt ggacatcagc cctttgtcag 300  
 gcttaattga ttctaaacgg agacccatgt atcttcgtgc tccaatgatc agctt 355

<210> 24860  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 24860

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 caaactaagc aaaatcatgt tcggctgcaa aaagtaaaaa caaaaagaag ttcaatccac 120  
 atgtgttgaa gtaaaggaac tacatcagat tcatagaata tgttcagaaa ttcaaggggtt 180  
 gtttgcgata tttctgcaca caggataaac gcaacaaaga gttgttaaatt tccatgcttc 240  
 aatatttgat tagatacaaa atagtataca accagtagag tttatgtttg aaatattctc 300  
 acaatacgaa ttcaaagaaa tggaatgaga gaaatacaaa acatagaaca 350

<210> 24861  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 24861

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aagctacagt tatagaaatt ctaccctcaa gctaagacaa gaatgataga ataagggtccc 120  
 acgaactcac ttggacagag tatgagtgat gctttaaagt acgcatcgca catcgagagt 180  
 actaatgaag actgtgcaaa tccatggaga gagagaatgc caatgccaaag ttattgtatt 240  
 tttggcaacg cgagtgaaac tgctggtaca 270

<210> 24862  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 24862

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 acaagcagtc tagtagaaaa acaacatacc aaaaaattat attagaccat ctctcaacct 120  
 ggactacgtt cagtgtacgc tttgcaccaa gaacaagtac ttagcattgg ttctttatca 180  
 aacccttcat atgctgctat aacaattggt attctctaag cctctatgag tgattcttaa 240  
 ctattctttc ataaagtctc tttgagtttc accccaatat tttttaggcc tctataggca 300  
 ctatccaagt attctttcaa acaatcttca gaggttggaa cacccatgag attataccaa 360  
 ttaggtacgt acttaagcga 380

<210> 24863  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24863

agcttcttat ccaaggcact ctcttggttg tgaaactctt tcttccatgg cttattccct 60  
 agtagatggg gccttctctc aactcttctc ctttatctta tgctgcatct ccatggtgga 120  
 aaatcaccat tgaaggacct cattgaagct caaagatcca gccttcatag aagcttcaca 180  
 agcaagcttc catcaagtgg taatcagagc acaagagctt caagtaggtg ctctgaaac 240  
 ctccattaat tttcagcttt accttctcct ccattgttgt ttcttcattt ttgtccatgt 300  
 atctctctc atgtcttggt ctaaagtgtg ntaattcttt agaatttcca ccaattaaac 360

<210> 24864  
 <211> 365

<212> DNA  
<213> Glycine max

<400> 24864

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atttaactgt ctttgggctt ggcggccgcg ctcaacaaag tactttcgac acctactata 120  
cgttgatttc accaatgctg ttatgggaat gttgcgacaa tcctttaaaa ccttactgat 180  
acattctgag aggttggttg tcatgtggcc atatcgacgt ccttctttat cataagccat 240  
cgtccatttt ttctttgaaa tgcgatcaat ccatgttgct atggctggac tcagttgacg 300  
aaatttttct aaattttgat aaaaaaaaaat gtgcttttaa ggagtgtagg ctgcataaaa 360  
ttagt 365

<210> 24865  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 24865

tcattaataa ttatacaaac tttttttttg ttttatttaa agaaatatat ggtaagatgg 60  
taatttcgct attcacaatt atgctcctat aggttttggt cttaccaaaa ttagtcaagt 120  
aggctatttg atctctctgt ttagtattgg tatgatttcc aatctcctta ttttaatgtg 180  
tgatagatac ctatgaaagg aactttgatg ttcaatctac ttagattgaa gtgtttatgt 240  
gtataatcaa gttacataac ttctattacg ttggactaag tatatatata tatatatata 300  
tatacatata tatatatata tatatgtata tatatatata tatatatata agaagccgca 360  
cagaaagctc ct 372

<210> 24866  
<211> 380  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24866

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gcaattcgac tatccacatc cacaaatcac acatatatcc accatcccca gttgccacc 120

ttcaactgag ctacagtact ccacgtagc ccttatactc gttcctctca acaccgggct 180  
 cccatcaatc cctccaagct tccataacat ccaagcaatt tcaacatcca aacatcatga 240  
 actatcaaaa ccaagccaaa aacagggcag aggcagaaaa ctctgcccac agcacaaaacc 300  
 aataccacag tttttcttat tcaaataccc cagtaacatt ctcttcgttc caatttggtc 360  
 accgttggat caactcgaaa 380

<210> 24867  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 24867

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 gggtaaaata atgtttcatt cttgtatttt tcatgtcggg aattccatta aggcaacttt 120  
 gggcacttaa attcttattt gtatcagggt ttctatttga ttaaaataat gtttcattcc 180  
 taagttttca tgtctaaaaa gccattaaga taactttcgg atctcaaaca catgaaccaa 240  
 ctgtcaaaag ataagagaat attactaaga cttgaatata tgaatccatg acggcagctc 300  
 tgggtactta gattcttatt tttatccagt gatttggttg aaataatgat tcattcccat 360  
 agatatcatg tcaataaaac catta 385

<210> 24868  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24868

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 ttcttttata ataaactcac ccctcgcaat ttttgtaccg tgtggttggt acctgtgatg 120  
 atcgctaacc tttgttcggt agagcagaat gacaacagta gtggacaaga agtgagattc 180  
 ttttgtggag ccggcgagct gacatgatga cgttgagatt attttgggag agagttgtat 240  
 tttgttaatc aactcctcca tagctgggtc cgtaattctt tntgttgatt tgaagatgta 300  
 aatcacatat ttaattatat gtatgaacaa atttattttc cattatgtga atgatgtgta 360  
 ctangttact atatataat atatat 386

<210> 24869  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 24869

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 agtgctccag agagtgattt tctccaaaaa tggctctttt cttcctttgc ttcttacttt 120  
 ttttaaaatc aaggaaaatc ttctttcaaa aatatcttcc cacttggtat tagctcaaaa 180  
 ccaccattat gttcttatcg tgatgctcgc gttaagcgcg tatgtctagc tagattaagt 240  
 gaccacgcgg taagttgcag ggtgcgtgct tgcattgat agttggcttt caaggttggt 300  
 tcttgcgcta aacgggcttc ttgggctgag cggtccttat gtgctaagtg aggttgccgc 360  
 attgggacgcg acacttcaat tcttcaat 388

<210> 24870  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 24870

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 tgagtcttag tatgcaacaa cattaaaact ttcaaggaaa aaaaatttta tagttcataa 120  
 taatcttatt taatttgatg agaattattt gtaattaata gatgatacat gtagtttttg 180  
 aatttttttt tcaaaaaaag tcttactaga aattgctcta tttatttgaa ttttctttta 240  
 attggaacac aaccattgcg aggatataa tattattggt aaataaagaa aaggaaaaaa 300  
 aaagattgat gtccatggaa atatttcaag atatacataa attttgacac ctacaattac 360  
 tggcggacgt gt 372

<210> 24871  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24871

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 tccatccgag aagttggcaa actcaatatt cactttcctt cttacatcca catcaagaaa 120  
 gaacctcttg aagcatttta atctttcacg agtgagttcc atgtcttgat gtggaggaac 180  
 tcgattagaa tcttcactta accattcatg actataatat ctacaattaa aaagaaatat 240  
 atacatgatt aaaatttatg taattctaaa aaaaatgtaa gtaaaaaagt atagagtcaa 300  
 ttagctagga tttaaagaat gagctaaaca atggagagaa gtgctactct tagtccaacg 360  
 gtcaattaat atgga 375

<210> 24872  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 24872

agtcttatca gatgttgcac ttcggtatca gctcctctta ttgaagaaca atatgcactt 60  
 cttgcattgt aaatttgctt tatcgggggtg caactgttgg cattgtgttc cttcaacgtc 120  
 agcaagatgt tttttggttt caccatctac tttgtcatat cagcaataat tttcttttca 180  
 tccttagtca atcgcccagt gtatggatgt ccaactaagg acttggccaa ttcattgattg 240  
 tgaatcccac atatcaactt caccatccaa ccttccccctc catgcactgg tttcccacga 300  
 agcctgaagg gacaaccaca tttcctactc ccagtgtctt ttctaacgaa tttctttattc 360  
 ctacac 366

<210> 24873  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 24873

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 tttgatgcaa gtaaagcgaa taacaaagaa atagcgggta cagtttgcgt accttgtaga 120  
 agactacggt gcggagtggg gtttacgttc gatcgtcggc ttcaatcgaa gatttgactg 180  
 aaacggggga gatagtgatg agagagaaag tagatagagt gtatctgatg aaggctaatt 240  
 gtgcgcgaga gagaactaga gaatagagta 270

<210> 24874  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 24874

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 gctttaagag taacgtccca ctggtaaaac taactttcca aatgtttgcc ttcgcaggaa 120  
 tggccccgag gaagcttgcc tcaaagaggt ccaggaagga caaggcggcc gaaggaacta 180  
 gttccgcccc ggagtacgac agtcaccgct ttatgagcgt tgtacaccag cagcgcttcg 240  
 aagccatcaa gggatggctg tttctccggg agcgacgcgt ccagctcaag gacgacgagt 300  
 atactgattt ccaggaggaa atatggcgcc ggcggtgggc accactgggt actccca 357

<210> 24875  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24875

agtttccaag gcacaataac atcagtgtat ctttcccaag cctcttgga tatgaatctg 60  
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 tgcaaaatat aagacaaaac acacaagatt accacaggtt ttttctcaag aaaatagaaa 180  
 aattaaactg aaaacagagc tgggcactta gcgtagcatg ctgacactta acaaacctta 240  
 tgaaattaac acaagcgcta agcgagcaa gctgtcactt agctcanaga catganaaac 300  
 attnttttct gcagaatagg cttagtgtac aaggcgctt agcctaagtc ta 352

<210> 24876  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 24876

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 tggcccaaaa ccaacttgaa ccattcccaa ccaacccgg cctaataag taatgagaac 180



ctgggatgga cctaaacatt ccaactcctg gcagtcaaca aaataaaaga acatggacca 240  
caaagcaaag aggctggtgg tggctggcca gctatgaact tgattgatat atgagatatg 300  
gcctctggta atcgattacc aagggtgggt aatcgattac aaggcttaaa aatg 354

<210>	24877
<211>	383
<212>	DNA
<213>	Glycine max

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gttttaagaa	tagtatccca	ctggtaaaac	taactttcca	aatgtttgcc	ttcgcaggaa	120
atggccccga	ggaagcttgc	ctcaaagagg	tccaggaagg	acaaggcagc	agaaggaact	180
agttccgctc	cggagtatga	tagtccccgc	tttaggagcg	cggtacacca	gcagcgcttc	240
gaagccatca	aggggtggtc	gtttctccgg	gagcgatgcg	tccagctcag	ggacgacgag	300
tatactgatt	tccaggagga	aatagggcgc	cggcgggtggg	caccactggg	tactcccatg	360
gccaagtttg	atccagaaat	agt				383

<400> 24878

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tgccacctgg ttaataggaa caaataaaga ttcaaaacaa caaagaaggt tgaaaaggaa	120
aaaagaaaac aagatggaaa ttacgaaaac ataggaagag gatatgatgt aagttaacaa	180
gattcaatga tgggtgggaat agatgtgatt cgggaaacct ccagccaagg agagattttg	240
tttagaattt gtaaaacgga cggtacagaa gaagggctta gattcctcaa cattttgagg	300
ccatgtaggg tgtaaaacat atgttccctt cacaatgcaa acatatcagg atatactcgt	360
gaagatactg atgagttcat	380

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24879

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 tcactaaatg attttattaa caaataaatg tttaaagatg agacatagaa tccattctcg 180  
 attgtaagtt ctttttaatc taacaaataa gttcataatt ttcaacttat cagagaattg 240  
 tctaatactt aatatatata ataatagtaa ttctgataaa gatattcata gataattata 300  
 gtagtatcgt ataacagttt gtaatatact ttgtaagtag attntatgat agtgttttcg 360  
 attaanaagt aaatttcaac aatt 384

<210> 24880  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<400> 24880  
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 tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatatcacc 120  
 atatccttaa ggaatttttg agctttggaa ttgttttggg aataagtgtg gggggttttt 180  
 gtttcattgg acaacttgtt ttgttggcta tgcttcatga tgtatttttg gccatacttg 240  
 atgtacattg tatattgggt aaatgttga catgctgaat gaaatgttgt ttctcaaagg 300  
 ctatagagta aaaaaaattc aaaaaaagaa aaagaaaagc aatacagttg agtgaataag 360  
 atcttaaatg 370

<210> 24881  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 24881  
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gatttgtgga tgtggagaat ttttttgcac catcgccga cgcaccta gtaccacatg 180  
 tgatgggtac ccataatcc tacaagcttg aaatgaggaa gtgtggaagg gtgagacttc 240  
 ctacttttat tcgttgacca cagagtggta cctggagata tgcgcgggg gtcaggagac 300  
 cttgtggatg tcaagtgggg tgctattgcc caaaaccaag cttgaccaat cccgaccaa 360  
 cccgggcat 369

<210> 24882  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 24882

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 tggccactgg taatcgatta ccagagagta aatctgttga aaaaaccttt ttaacttaga 180  
 tttcttggcc aaaccttttg cgacttcaat tggaattccc ttcttattta atataccctt 240  
 cctaagactc tagagattgt cttgatcatt catcttgaat atctttgtct tgaataaatc 300  
 tttgagaagc atatgattca tgtaatcctt tggcatcatc aaaacattca gtttgatcct 360  
 ttgtctacat g 371

<210> 24883  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24883

agtttatgct acaaacattt ataataggcc tcctcagcat caaaaccaac aagagcagaa 60  
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 gcagaatatg ttcaagaaag agggcgaaac ctttaaagaa tacgcgcagc ggtggagaga 180  
 tttggtggca caagtagctc ctcccatggt tgagagagag atgatcacca tgatggtaga 240  
 cactctgcca gtgttctact atgagaagtt agtaggttac atgccgtcca gttttgcaga 300  
 cctagtattc gccgngaaa gaatcgaggt aggattgaaa agaggaaagt tcgattacgt 360  
 ttctccacg agt 373

<210> 24884  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24884

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 tgagcctagc ccaacaagag ggatctgagg acgaagcttg gattgattca gtccaactag 180  
 ggatcgaggt ttagtaattt aggctacaac ataaaacaca aaagcatgtt tgattagaga 240  
 aacatcctta tatgcatcag ctggtctgtt agaaaaacct aacacttcta cctactactg 300  
 tcaatnttac ttgtattttt actgttttta acctagactt agtttaaact tggctctaaat 360  
 catcaattat caatg 375

<210> 24885  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24885

atcttcattc atcttgggtca aaccattcaa agacttacta ttcaccctta aaacaagttt 60  
 tttacctgtg taattataat catatatata caaacatcac aaaccatcac cttataatta 120  
 attaattaca tatattttaaa tttaaatttaa ttattcttac aatctaatta aaatcactta 180  
 actagacatt aaaaaaaaaat ataatgttac tataataatt tattttaact aataattatg 240  
 gatacatagt aaagattaat ataggacata ggagtctttt ttttattcat taattcgggt 300  
 nttaaaatat gctntgtatc caataataat taaaaaaatt aaaagtaatt tatttaatat 360  
 agttaacta 369

<210> 24886  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<400> 24886

agctttgatg caacatttgg agaggttaat gaaacaacga gatgatgcg tccatgagag 60  
 gttggaatag agatcataat gaagaagaaa ggaggagaat agggaatgat ggtgttccta 120  
 gacaaaaccg aattgatggg attaaactca acattcctcc atttaaagga aagaatgatc 180  
 cggaggccta cttggagtgg gagatgaaaa tagaccatgt tttctcatgc aacaactatg 240  
 aggaggacca gaaggtgaag cttgccgcca cggagtttcc cgactatgct cttgtgtggg 300  
 ggaacaagct acaaaaggag agagcaagaa atgaagagcc aatggttgat acatggacgg 360  
 agatg 365

<210> 24887  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24887

agtttcatct aacanagcaa taataccaat gggtttctgc aaaagaatgc aacaagtcaa 60  
 taagaaaatg aaattcaaag gggaaaaaaa ttatttgtac ataacaatga tganagcaac 120  
 agaatttaat ttccaaatga agcaacataa tattcattan gcatgattat ggttaaata 180  
 atcctagata tgcagatctt aacaacttat ccttcanaag aaccaatcc aacacttatt 240  
 cccaacatta tgtcaaaatc atatatatga gatccaaaca ttagaccaa agcacagaat 300  
 aagacaaagg aattgattta atgcggtcta gttaagtagt tgctttctat tagagagaac 360  
 taatctatat 370

<210> 24888  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24888

agtctttatt caactcaaac atggcaagaa gacagtatat actaggcact gaagatttct 60  
 taaaccttat caccgtacc gactattgaa gaaagctttt aatgaaagct aggagaataa 120  
 aagtgtcctt tgaccattag ctagaaatga agtttatgat caggtgaagg acatcataac 180  
 tatctttggg aagacccaaa gccatcatct aagactaacc tatggaagaa aaggtcaata 240

ttttttatct tccatactgg ttcgatctac atgtatgtca ttgtctagac gtaatgcatg 300  
 tggagaaaaan tttttgtgat agtttaattg gaacccttct taacattaaa ggcaagacaa 360  
 aggatggttt gaaatgtcat caagacctgg ttgacatgga aatacgagag caattgcatt 420  
 tgatat 426

<210> 24889  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24889

tgagttccta ggccatagaat tgcattcggg cactcatttt anacattca tgttgtccct 60  
 atatatacaa aatagtctca caatcccaag cttacaaaac catgctcata tgtcattgag 120  
 gcatttcacc aaggacttgg tggacgcatg tttatgcatg aatagcaaga gagtgggggc 180  
 aatgtccatt gcttcaggat gcacctang cctaaggcca tcccctacaa cccctcaatt 240  
 caaaacaatc atgcatgaaa acaaaccaaa attgccccac aaatttgagc acattccac 300  
 aatttagagc accaaaagag gaccaaata caccaatgga aagctatana actcaaggat 360  
 gagatactta cttgttggag tgagtaggag taccacaaat gacagcaaaa tgtaaccaag 420  
 ggtggcttgt gggagcanaa accgtgagtc ccgt 454

<210> 24890  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 24890

agcttcattg cctaattaggc caacttcaa cagcgaaccc caagagactc agcataagga 60  
 tgcacagacc aaagttgcgt atgtaaaaca attgtatgac caagtgaagg tgcaaattgc 120  
 atacaatatt gagtagctat gccagtctt ctccaacaca atcggatagt aatgaaactt 180  
 cttcaacact gagtttgagc tcttaacata acgaaggatc ttgcgaatga tgtaaggatc 240  
 tgagctcgag tatcctgtat tgagattcta ggaatacaac ttctcgatgc atgaatgcta 300  
 tgagatttat gatttatgca cttaatgttt gaatttaagt atcatgatag agccatatta 360

gagtaaattct tctcttttcag cggcgagccg agaaagcgca atagacacac aatcaccca 419

<210> 24891  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 24891

aggaaggatg cttcaatgga ggaaaagaaa gagggatata aagagttagg ggggagcacg 60  
 aaattgaagg aataaaagag ggggagaagt agaactttga agtgtgtctc ataagacttt 120  
 cattcatcaa agttacaaca agtgttacac atgcttctat ttatagacta agtagcttcc 180  
 ttgagaagct ttcttgagaa aacttccttg agaagcttct ttgagaaaac ttccttgaga 240  
 agctagagct tagctacaca caccctctc ataactaagc tcacctcctt gagaagcttc 300  
 cttaagaaga ttcctaaaga agctagagct tatctacaca cacatctcta atagctaagc 360  
 tcacctcctt gagatgagaa gctagagctt agctacacac tccctataat agctaagctc 420  
 acccccatga caaaataaga tga 443

<210> 24892  
 <211> 525  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24892

cgccccccac aacccaaaagg aaggcgaaaag ggnaacgaaa tacgaannnc annagcaagg 60  
 nnttgggact cgagacanca gcgaaaaagc cgggcgggaa caaaagcgaa cgcgcccgct 120  
 atcttaccaa aaccggggga agaaagagaa cgagcccagc cgccactcgg acccgcaaag 180  
 aaagcacaca cacagaagag agtgagaacc agacgagaca aaaaacgaca ccacaggcca 240  
 ggacaaacaa gacagacagc gcacacccaa aacagaacca gacaaatcac aacaaggccc 300  
 acgagagggga gcgcgaaacc aacaaagaag aatcgacgac gagcaggaac taaaaggaa 360  
 gccaaccaac acccaccgac agaccacac gagcacaagc agacacaatg ccaaagagga 420  
 aaccacagtc gccgctacca ggaaagaaac aacaaangca gcaggcgcaa ccacagacaa 480  
 gcaggctcaa accacacgca cggaaaggag gccacctggg caccg 525

<210> 24893  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 24893

tgttttggttg tgtttcgcac ttgttccaac aagacacaag acatccatgt ccgctcctga 60  
 gccatcgctc gtgtactgaa aagaggagaa tagattggga ccagctcttg gctgggatag 120  
 gtggtagaac aatcaattgg ttccccgat ggaaggaagg aaaagaagga gtccttttct 180  
 catgtggagg atacccaaac attccgctgg taggaacgag gggttgtatt aactacaatc 240  
 ccgcgctcgc tataagacaa ctaggggtacc ccatgagggg agcaccgacg gaagaaagca 300  
 tgtctccttt ccttgtaagg gatttcgacg caaaaattt caaggctata caaagaatcc 360  
 acaaggcatg ggaaaccccg ttaaggaaag atcaagaact tagaggcatt cgtaat 416

<210> 24894  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 24894

cttggggggt gaaaactata taacagcacc aaggttctag tttagctctc tctcctctct 60  
 ctcttctatt tttcattttt agtttcagtc tctcttctct ttctctttta ttttcatttt 120  
 ttttacaatt ccagttcata cttttagttt tatcaataaa atttcgttct ctatttgaat 180  
 aatggaaggc taagtccgca gtgttggttt ctcttgagga tcaagcaaag ttctctttga 240  
 gggtctatta ttactgttaa attttgttta gtttttctct ttcactaatt actctgaatt 300  
 tgttgctatt aattcatgca tgcttagtgc ttgattaatt gtctctgcgc ttaatttacg 360  
 ttcattgctta atgatcggtt atgagtaatt ggtgtgtgtg atggctaata acataatgaa 420  
 tgctttatgg ttaaatt 437

<210> 24895  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<400> 24895

ttgcttattc taataaccct acaaaatata attacaataa ggaacctcag aaccaagtag 60



gacaaatatt catagcggat tatgcgcgac tgcattgacat gttatatgtg tatctatgaa 120  
 gtgagccacc tcatgattgg ttagttgcaa aagtgcgcca cgtctagaat tatggccggc 180  
 taaaatattg accacagcgt aatccaacca tcaataacta gtgaaaaatg gcagattggg 240  
 agtagctttg gagacaaaat ggaacgtcaa aatgctaacc cacaggacaa aaagatggat 300  
 cacacagtat cacaggtggt c 321

<210> 24896  
 <211> 232  
 <212> DNA  
 <213> Glycine max

<400> 24896

attcatgatg ttggctacac attcacactg tctacaacaa cggcgcctta ataaaaatta 60  
 ctctcgactc ggctcgaacg ggaacgcaat aaacttacat gctcttttct aattgcgtat 120  
 ccatgttctc attcaattaa tattatctag atacgatagc tctataaaat ctatttttaa 180  
 agctagacat catcctgttc atcagcaact ttcaacctag ctaaagacgc tc 232

<210> 24897  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24897

ttcttttgtg ttaattagtt gcattgtagc gtttagagta attgtttgaa caacaactaa 60  
 caaaaaataa ttgtttgatc aatttcaata aacgtcaaga gagaaaaaaa aagagagttc 120  
 gatattaggt ttgataaaaa gtcttctaata acactattta ttattaatta aatttcttaa 180  
 aaactgattt tgagctataa acataatgag ggatcttgtg tatgtatggt ggaactgagc 240  
 ttgattatcc tgtattgaga ttctaggaat aaaacttctc gatgcatgaa ttctataaga 300  
 ttttttattn ttgcacttaa tgtttgaatt taattatctt gatagagcca tattagagta 360  
 aatctcctct ttcagcggcg agccgagaaa gcgcaataga cacacaatca cccatggac 419

<210> 24898  
 <211> 453  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24898

tcttttcagat cgtaacatca aattacactt atgaatgtat cttaaaaata tgtctaatac 60  
aaacaaatcg gaagcacctt gcaagtggag tcatttcgtc taagaaaaat aaaacttata 120  
caacaatgac aatcaaatct tgagtcatta gtcgggcagc tacgaggaaa aatcaatggc 180  
atgtcgacat tgggaaagca tgatgacaga ttctgaatga aatgtaggct acaattggac 240  
aggagatgtc caatgggtgg ggggagcaaa caaaagagaa gttacaaggc atcctcttga 300  
tctctcaacc agcaaacaca cataaagaac attctcatga taacacanaa aattagcatc 360  
atatcaaact tagtacatac caacttctta taatccacat aagaaccaca caaaanacta 420  
agccataaac aagaacaaga tataatgata aac 453

<210> 24899

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24899

tttctttcac caaataccgt gtggaataaa agagttcatg cctttttttt cttggacaca 60  
aaatgaaagt caacatagag agaagtgtga gtagctgtaa atgtaaatat atgattctat 120  
aggccagtaa aatcaattta tattttcaac ccccaaaaata ttttcaaatt aatcataaat 180  
aggcctatgt gaggtatctg taaacctaaa tatatgattc tatgatgatt tctatctaca 240  
atgtttgcta accatcacc actgactgac ccacagattt ataggcagaa ttagtgccaa 300  
agaggaaact aaatttgcag taatcaggaa ggaaactaan attgtagtaa tcacaaccat 360  
agacatttag tttctaacct tactcctgtg aaagtgtcct tct 403

<210> 24900

<211> 579

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24900

cgctcacgcc agtcgtcgct actacacaaa cacacatgcg tcaggtgtgt gcgtcncct 60

ccaaccancc ncccnccag cgcgcnctt tgacccttg gancctagc ctncgcgac 120  
ccaaggatac tgnactcgag agcatctaac caaccagctc agattaatga tttgactgcc 180  
acagtgagat acaccccata tgatagaaac actgcagaac gatctgacgg agtcataaca 240  
agatcagtat acagggatgt agcatactgc atgatcatgc ccatcatata accacatcct 300  
atgatacagt ctgccaataa tgacatggcc attgcacagg aagatgaact ccaccggtac 360  
accatgaatg atgtggggac actccgcccc aaccccgatg acaaaaacat cattggaacc 420  
agctatagaa ttagaaagag cgtggattaa cgaagtaagg gagcaaggaa caaggctatg 480  
acatgagctc agggctgaca ccaacaagaa agaatagact ggtaggaacc cctgctctat 540  
ggcaacaggc aacgtaagaa caagcgttct atgtaggag 579

<210> 24901  
<211> 314  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24901

ttgcttcttg atgatgaatc aagtttgagt caggtagttt tgatgatgac caaaagccca 60  
atagaatgat tttatgattg agtcacctag ttcaagatca agattgattt catgattctc 120  
gaagagacat cgagaagaat cctgattcan gagaagatga attcaagatt catgagatga 180  
gatgaagagg caacacagtc ttgacttctc cacggaagta ttgaaaatga tgtttcaaaa 240  
accatacata tcacagtctt gccttataaa agagtttctt cataatctcc tagtgaccag 300  
agtatttaca cttt 314

<210> 24902  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24902

ttgcttctcc cccaattttc tataaatagg gggagaagtg aagtgaaaaa gggttcagcc 60  
ccttaggcac ttatctctct ttcgaatttg cttggaaaaa ttgtttctgt gaagaaaatc 120  
caagccgagg cgcttctgaa acgttttctg aacgtttccg tgaggaattt cgcgaagggt 180

tcgaccgttc ttcgacgttc ttcattcggtt cttcatcggtt cttcgatctt caacgggtaa 240  
 atacctcgaa ccaagctttt cgattcattc tatgtaccgg tgggtggcca cattgtgttt 300  
 cgtgtatttt tattctcggtt tcatttactt tntatacccc cctttgacgt gcttaagcca 360  
 ttgtatttaa gtcattttct gcttaaccta naaataaaat aaatttccac cgatc 415

<210> 24903  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24903

tgccacccag ctcgcccagg cgagctcttc tagccctggc gagcagggtt gcttccctcca 60  
 gaagtaacag ccttctggag ggcccaagtg ggcttgggtg ctatttgcac ccccatTTTT 120  
 actaagtaca ccccatTgcc tttttttttg tgattctttt ttcgtaaagt tacggaaact 180  
 tatgaatttc gtaacgatac ttgttttctt tccgtaatgt tacggaacct tgcggtattac 240  
 ataatcatcc cctttttgac ttacggaatg ttacggaacc tcactaatca tcccctTTTT 300  
 tgatttccgg tgtgtcacgg aaccttacgg attgtgcac aatattttct tttgttttcc 360  
 ggcatgtccc ggaatttcac aaattgccta atgatgggtg ccaagcacct cacaaggacc 420  
 anacaaaagt tgcattgtcat c 441

<210> 24904  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24904

tctanntttt ctaattactc gccacgatct taatttgatg ttacagtgtg agagagagta 60  
 tgatagtgtg gagttatgat catttaagta ttgtaaaaac cagataaaca ttggtctacg 120  
 aatttataat tataaataaa gagtttatat ttcgaatgtc aaatgataca tatcttacat 180  
 ataagcaggt gatctatgtg tctgagatga gaggagcatg gcctgaggat aaaacaacga 240  
 agcgctaggc tcttgtagct catacatata tagatgcac gatgctatga gacaatgacc 300  
 tacgacctgt ggagtaagtg atttatataa gagagagacc ctggcattac atcttcagag 360

atatcga

367

<210> 24905  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24905

gatatatcca ctcaacttat gtgcatntta tttcttatac tctcctttta cattagatta 60  
tgacttagcc ttctattttc ttattcataa ccatcattat ccaactagta ccttacaaaa 120  
caattataag gtataatccc tctcataccc ctaaggtggc ataaagcatt ttcaattgat 180  
gacacacatc ttttgcataa ttactagaca tgcattctac tctctatcaa acgggaataa 240  
cacattaaca cacatacata acatgatcaa ttactcatag tctagacatc tcatcagttc 300  
acatctcaca gtcattatca tcgcatacat tcaatatata gtaccaatca tgaaatagac 360  
acacgtgctt tacataattg tattacaata cccatcacca aggacaaatg ta 412

<210> 24906  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24906

tgtctttgcg gaacaaagat aattaatggc ccatctttag acaaataaga aacacagaga 60  
actatattgg aagcacctgg cttgcagatc atgttagttg tgttatgctg acctctcaa 120  
aaaagtgtta acgttatcgt gttgtactca actctacaaa aagttgatgt catgatgttg 180  
ttacaaaata cattgcagtt aacaaccttg cactgaaaag gtatatgatg attatgaata 240  
cgttttaatg tcttgattaa ttatatagca agtttttagga catactacag attttgaagt 300  
acttccttgt aaaccacgtt gggtgttata ttatgtgggt ttcctttntt atcacgaata 360  
aggattttca atccattctt gctttgaact cttaagaatg cgacata 407

<210> 24907  
<211> 323  
<212> DNA  
<213> Glycine max

<400> 24907

tacattacat atattacagc atttcagtgc actgtgaagt gtaaaacaca atttagattg 60  
gatagaacag ataaagggag aatgttcaat taccatagca tggcaatagc tgaccccaga 120  
tatgagtcgc tgaaagaaga atccagcctg aatcataaca acgggttaca aactatcgca 180  
gaataagtac aaacttatag cattcaggtg tagaataagt aaacaaaata aataagaacc 240  
tcatectcgg taaaacgccc agcattgcag attattttta agagctcttc cccagatgca 300  
tattccatta caatagcaag atg 323

<210> 24908

<211> 414

<212> DNA

<213> Glycine max

<400> 24908

agtttgttta tatttgcaac cttttcgatg ccagaaaacg ttatcaatgg accggaaaca 60  
acatcgcggtg ttactaaata cctcatgtaa ggttctgcat gagcctccaa ataaggaagt 120  
ccttcgatct taagtatttg atcatagaca cccttgttga agctgtcagc cacggatttt 180  
gagaccaata agactaacat cacaagtgga agtaacaaga gatcattaga gagtcaagc 240  
aatatgacac aaagagacac tgtcattctc atgggtgccac caaggaagga agcagctcca 300  
agtaaggcaa agagtctctc gtcgagatcg gtaatcgttt cgaagagccg gtcgaataga 360  
ctgccatagg cagcaccagc acgtatgacc ggaatgaaca gcccggatgg aata 414

<210> 24909

<211> 339

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24909

gagcgctctg actatgttga ccaagcgctt tgacttttat ctctgncac tgagctgatg 60  
atagtatgga atatacatcc tgggtggataa ccatgcctgc ggaagccaac atctatagtg 120  
cggccaattc taccagcaat gagagcgcat ctcaccacta cagacctgat ggatcttgta 180  
attgctacca tcattatgag agtagcgctg tcgattacat acacttttat agtgaccgag 240

agaccacaaa ttccgcactt tgtgtactac ttgtgtctca catcatttac agataataat 300  
ctctggcatc aacatggaga cttccacgga cactagcac 339

<210> 24910  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 24910

agtttgtatt aattcggcca gacgagggat caagggttta gtaatttaag ctatagcata 60  
gaacacaaga gcacgattga ttagagaaat atatttctat gcatcagctt gtttggtaga 120  
aagacccaac atttctacct actgctgtca ttttatttac cttgcatttt atagtttttt 180  
tagcataaaa gtttggttaa attctgtttg aaattatcac tcatacatgt tctctcaaca 240  
atgcttcgat tctgaactta attcaagcta acattagttc cctgtgttcg atactcagat 300  
tcatccattt taaattttaa atacttgacg atctggtgcg cttttcggta aacccccatt 360  
gaaatttcct tgagacataa atgaacaaaa agtaactgca ttggagagtc aacacagtct 420  
aagg 424

<210> 24911  
<211> 445  
<212> DNA  
<213> Glycine max

<400> 24911

actattcaca caatttaaca agaaacaatg aattatcaac ttgaaaatt aattgcattc 60  
ccatacctag atctccttct aaattccacc gaatttatat atgtttaaat gcatggaagc 120  
aaggattcaa gactagctgt ggatctttta ttggtcttga tggttgtttt ttgaaaggct 180  
actatggtga tcatttgctt gcagcagcgg gacaagatgc aaacaatgca ttttttgtga 240  
ttgcttatgc ggtagtaa atgtgaagata aagataactg gaagtgggtc ctcacattgt 300  
tacatgaaga ccttggagac tgcaagcaat atggctgaaa ttttatgtta gacatccaaa 360  
aagtgaatt caattgtttt gctttgatca attcatatat agaatgttgt aattctgatt 420  
gcctgcatgc atatgtgata gtttg 445

<210> 24912

<211> 411  
 <212> DNA  
 <213> Glycine max

<400> 24912

agtttgtgtt ggcgaagcaa aaagccattg cacttgaata tggcgattga gaaactttgt 60  
 tgttgctttt gtcaacaaat aggacacctc ctatctaagg atccatgcac gggtaaacct 120  
 ttgtagtgtt tctacgttac catcatgggt atttatttgt gaaaaatggg gagtcaacca 180  
 gcttaattta accacattgc cttgaagttc accttctgtt ggtctgactc ccaacaattt 240  
 ttcacacaat tcagcccaat caaaattagt ttgaccaatt aatgggtgcc catcaacacg 300  
 cagacctaata aatacaaaga catcttgaag agtaatcgta cactctccgc atctcatgtg 360  
 aaacgtatgt gtttcgggcc tacatctctc aatcaaggca gtaattaatg a 411

<210> 24913  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24913

cacgcencaa tgtacgttgc attgcgtgan tctatagaat actcacgctt gtccttgcgt 60  
 tacacacgat ngngtacaca cacatgtgtc taogattaga catttcagac acaagactga 120  
 tgcagcacac ataatgtcta caactcctgc actacataca ttacaccgtt gctgagcaca 180  
 gtgaagtgtg attaaccact tgtatagtga agtacacaaa aggcgggtat agttaattat 240  
 cataccatgg ggttttttga ccctgatata tagatgctga cagaagaatc gtacctgtat 300  
 catatctaca ggtgtcatal aaccgttgaa taagtacaac ctctctcat tcacgtgtag 360  
 agaaaactaaa caaattacat atatacctca tcctcggtaa taccocacat tgcagatatt 420  
 ctcaagatct ctgcaccaat gctatgccat acaataccac gacactacgt gctaaatacc 480  
 tcctctcatt atttgacacc ccc 503

<210> 24914  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 24914



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gaaaagaaag gtttccggaa caaaggaaat caaagcttca accaagggga gatggaccat 180  
ttcaagtgc tgaagaatc aatgacaatg cttacaaagt tgagctgccc ggtgagtata 240  
atgttagttc caccttcaat gtctctgatt tatctctttt tgatgcagat ggagaatccg 300  
atttgaggac aaatccttct caagagggag agaatgatga gggcatgacc aagagcaagg 360  
gcaaggatcc acttgaagga cttggaggac ctattgatga ggacatg 407

<210> 24915  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24915

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accagttgaa tttctcaaga gcttccgttg ttcagttttg agcgtctcga tatgtgattt 180  
gcctgaatcg gacatccgtg tgaagaagta tgaccatttg aatttctcaa gaccttccga 240  
tgatcaattt cgagcctctc gacatattat gcgaccgaat cggacatccg tgtgaaaagt 300  
tatggccatt tgaatttctc gagagtttac gatggttaag ttcgagcgta tcgatatagt 360  
atacagctga atcggacatc cgtgtataag atttgaccat taggattcct cgagaacttc 420  
cattgttcaa tatcgagctt ctcgacatat taag 454

<210> 24916  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24916

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tgaaataatt ggaactggaa aactcccctt tctatttatt agattgtgac tcccttcttt 120  
ggcctccaaa tctcgaccat tcgagctttc atgatctgaa cccgaacctc tctctctgtt 180

aaaaccttcc aattaaacat agacctaggt taagtatctg gttatgtgcc tccccacat 240  
 tgaaaacaaa gccatcgccc tccctaacca tcgagagtct ctttgtctcc ttctccaatg 300  
 aactagccct atctcacact taacatctat tatttgtatc actcacaagc aaggcactca 360  
 ctatcacaca acanactctc aacggaggag agatctcacc tagataatca taatat 416

<210> 24917  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24917

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 gcttcttgca ctttccattt tgcattccga aataggctaa ttacatttcg taatggactt 120  
 ttcattatat actgaaaagt gtagaaaaca ataatgagag tgcataaagt ttatctacac 180  
 tctttttatt tattatgaaa ttgggcttct gactcatttt gtccattgaa aactgaagtt 240  
 gtgttttaat ttaagtagtt gctatttaca ctctttttat tactaataca cttcacttgt 300  
 gttatcaact ttaatatatt tattttgaat tttgaagtat gaaattatgg atgaactttt 360  
 cttaatcaaa taatattagt tatatactta tatataatat atacatatat aantttaaat 420  
 tntttaatat agattgcgtt aaacatgatc aattattgac c 461

<210> 24918  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24918

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 cctgcgaaca aacttaagc gccgatgaag acagagctat cttctgaaga tcccactcgt 180  
 atggtgtaat gtctcaccct aaataactca cgctagaatg acatggacgc agaggcaatg 240  
 caggtgtgtg acgaataggt gagtgtgact tcagagagat aataggcact agtcatacac 300  
 acaccacgca gctacgtatc tgaactcatg taacacccca atcgaatcca gcgaagggag 360

cgagaattca tCGgtgtcaa gtctacgacg tcaacagatg gtgacctaaa gggattacct 420  
gctactacca atactggcaa catgcataga ctgaaagga ggcacccgc aagaactcca 480  
tagctaccc 489

<210> 24919  
<211> 483  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24919

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cctttgcacc atattacgga gaagcagggg ttgtcccttt gatttatagg ctggcgatgg 120  
cttgtgtaga tccacttcct acacacactg cctaagaggt gctccattgc gtataaacia 180  
gcacaaagaa ggtacaggcg atgggacct atcctccctg ctcgttttgt cattgggtatc 240  
gaatacctat catagtactg cgtcactgcc gtagcatcat acatacaact cctttaccac 300  
acgcggttgt gcacgctgaa tgtataaatt gcgattgcgg atgaattcct acattataca 360  
cgacatcttg acattgaatc cctaaggagt aaatgacgaa tactcgctgt gtcgtattca 420  
attctaattc acagtaattc acttgcagtg cgtcataagc taactctctc tatattttcc 480  
ttc 483

<210> 24920  
<211> 315  
<212> DNA  
<213> Glycine max

<400> 24920

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agagaactat atatatatgc atcagctagc tagttataac gacctcccag ttctacctac 120  
tgctgtcagt tacatttacc ttgcattata tagaatgact agcataagag ccatgggttac 180  
attctgaccg aaatatcact catacatgtg tctgtcaaca atgcgtggat actgaactta 240  
attgatgctg acattagtat cctgcgtgcg atactcagat tgattcattt tatatgctag 300  
atacctgacg atctg 315

<210> 24921  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 24921

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 gaatgcatct ctgtgaccgc tataactgtt acaaactctg ggctacaacg tactctccac 120  
 gctctaaaac tctcatccta tcccaaactg ctactatgg atattagcca caacagtact 180  
 agtggaaacta ttcctcagca aattgctaac ttgtacagag aactcaatt gataatgagt 240  
 gctaataatt ctagaggctc aatccaccat tacatgagga agttggctag ctgctcaatt 300  
 ctaaacttcg aatacactac actctctggc tctattcctg aagagattgc atactaccag 360  
 aacttgaaga gtctattact tcaatggaat caactttcag gtaccatacc tccaacaact 420  
 ggaaggttgt ccaaccctgt ta 442

<210> 24922  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24922

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 gaggagaata atttcagggt ttgcaattc cagtttttac tgttcatgca cactattcac 120  
 gtagaataaa attcgttttc tgtaatttcg tttctgcttc aatctacaat ttcattttct 180  
 actgattaat ggaaggctaa gtctccagcg ttgttttctc ttgaggatca aacacaactc 240  
 tctttgaggt ttgtttatta ctattgaatt ctgattaggt gttcctcttc accaattact 300  
 ctgtatttgt tgctattaat ccatgcatgc ttagtgcttg attaattgtc tctgcgctta 360  
 atttacattc atgcttaatg atcagtttca ttcatgatta at 402

<210> 24923  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<400> 24923

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 gcccgatgta gaatgtatgt tgttacatcg atttaaaaaa ccgatgttaa cataaaaatg 120  
 ttaacatcgg ctttataaat aactgatggt ataaagaaag aagtacaaca aaatatgtgt 180  
 atgcgtgagg gacgttgaca tcggttttct gctaaaacca atgctaatat gttaatatgt 240  
 tatattaaca tcacttttta taggaaaccg atgtgaacgt tcatcattca tgcacctatt 300  
 ttgctgtaat aatgtatgta taacatcgat tatctataaa taaccgatgt taacctatgt 360  
 acattaacat c 371

<210> 24924  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 24924  
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 tacacctgca gacttaaggg gagagggtta ccactactgt gagaccgga gcgcattata 120  
 tatcaaggca ttacagctca atagctggga agccattgac catagggcca tatatacctc 180  
 ccacatgcta aagagatcaa tacatggcctt ccatcttggtg ctgcctgcca tataatgcct 240  
 atacaccatg gtg 253

<210> 24925  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24925

gaattaacat aagttatgct tgttattctg tgcggataac aaatgctgac taatggagat 60  
 ctaaattcca tagaattaga atacgggtaa ttgagtcata agagttttaa gtggatgaca 120  
 tttttgtaaa tgactatata aatagtctaa aaatagaatt ttagtttaat taatggtgac 180  
 caattaaagt gactaattat atgatgtaga ataattaaca taagttagaa ttgcaacacc 240  
 ttgaataatt acagctcata ctgacaaagg atactctggt gttgtattcg tgcattgatg 300  
 aatataatct caatagatat atgtgcttag tcatataatt tcgngctata tatatatgtc 360

tgtgtgtagt gtgttgacgt gtgcgtgtgt gtgtga

396

<210> 24926  
<211> 347  
<212> DNA  
<213> Glycine max

<400> 24926

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ggttacttcc tcgttgacat cttttgtctt gaatggaatt gccatgacag gtttattggt 120  
actgtctttg atatttggtg gctgatgttg tgttgaggga ggtaattccg attggattaa 180  
ctcaccatcc ttcacttgcc agtttgttat gacatttggt gttggatcac ctatgatgtc 240  
ttgtttccca gggtaatcta tatectttct gatggcataa gcatgaaacc aatcagagat 300  
aaggacatta attttgactc tttcaacaaa tgtatagaac ttgtctt 347

<210> 24927  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24927

cgtattacat ggttttcttt aagttgtctc actgacagac atgcaatgtg attaaaaagc 60  
ttaattgtat tcgtgagtat gtttgtcttt gttgtcatgt tttgttctat ctttttaacg 120  
tagtctcact ggtatgaagg atttatttac cttgcccttt gtttgtactc cattcctcta 180  
ttgagctgac ttcattcagt caaatgagta tgtgtctact tactctttta tctatttttc 240  
attacaactc cttcattctc atgtgtatat aagtatatcc ctcatctcaa tctttctctg 300  
ttattgcatg tcatgctttt ctttcatata taatgaagca tctgaanaga caacattcct 360  
tgcagcttcc tgatcatgac cttacgttgg aagcagcatg gcctcaatta tttgttgacc 420  
ac 422

<210> 24928  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 24928

ttgtttatcc aatcagatgg gacaattggc tacccaattg aatcaacaac aatcccagaa 60  
 ttctgacaag ctaccttctc aagctgtcca aaatcccaaa aatgtcagtg ccatttcatt 120  
 gaggtcggga aagcaatgta aaggacctca acccgtagca ccttcctcat ctgcaaata 180  
 acctgccaaa cttcactcta ttccagaaaa aggtgatgac aaaaatttac ctaacaattt 240  
 ctgtgcaggt gaatcttctt ccacaggtaa ttctgatttg cagaagcagc acattccccc 300  
 gcttccattc cctccaagag cagtttccaa cagaaaaatg gaagaggcag agaaagagat 360  
 cttggaaacg tttagaaaag tagaggtaaa catacctctg ttggatg 407

<210> 24929  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 24929  
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 aagagcaata actaagcact ccaccctgga aatcttcatt gagttgttga tattgatgtg 120  
 cttataaagt tgctgatgat gctccatgga cattgttgtg tgttgagctt ctatggacca 180  
 ttgttgatgt tgatggagtg cacatacatg tatgagtatg aagcgtgagg ctgcgttttg 240  
 caagttagca cgtaactaga gtaatatgta tcgggggaaa gtgcttttta ttcttgattc 300  
 ttattggaca acgctgccaa caataattag aacacatgac aagtaataaa aattgatact 360  
 acacctcaga ggtggttgct agacgatata gagtggcaag actactttac caatccgaga 420  
 gtgaagtata tcat 434

<210> 24930  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24930  
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 aaagtaaaat atcataacag tattttcttt tatctctttt atatctgaat gtgaaaattc 120  
 aaaacttata aataatttgt tcttaacaat aaaggttaat tcagtcgatt agaaatatat 180

gatatatctt aaaagaatat gagtttgatt ttactgttg atataaaaat ttgttggtta 240  
aataatctaa ttatttctat aagtgtat ttgagtcctga agtctgttct gattcaggtg 300  
agtcccccaa acctaaataa gtgaatcccc aaaagcttgt atcatctgaa agaacttgtc 360  
attaaggagt anccacaaaa attactgttt ctattctgtg aggaaat 407

<210> 24931  
<211> 449  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 24931

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aactatggac cttcagccac agaaaacgac aatcaactat ttttctttct aaactagcaa 120  
gcaaggcagc ttgcatgata aatacagaca cattgataac ctactagcca aataagattg 180  
ctaagggtgag aaatgggcaa tgtagcttca tgcactcctt ccttgacacc taatgggggtc 240  
ttcaagggtcc tattcttaga tgggaggctg gaggcctaca caaacctat gagagctgca 300  
gaactgatgc tagaatactc tggacagttt gtttgtgact ctactacct caaagtcgga 360  
catgcattc atgggcttct agctgatgac caacttgaaa agcgcagatt ctacttcctt 420  
ctaccaatag agctgctctt ctctgtgct 449

<210> 24932  
<211> 422  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 24932

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acaatagtgg cattacttcc gaattgggca gtgagtttct tttccttttg cactctaac 120  
tacattgatc aatgtctatt gcaactaaag atgcaaggct ctgtgaagca gggtttgat 180  
ttacttttgt ttgcttgt ttcagcattc atttccttc catcttctca tgtcatatgc 240  
acaaactata cataaacata gacgaaacat aattgataag cccaaaattt ggagttacac 300  
gggtctcatg aatagctgat gattatcttc aatcaattn ttatttgtct tataatcctc 360



tctaggatac agtcctttaca agctacctga ttgttcatta ccactagttn ggaaaattct 420  
tg 422

<210> 24933  
<211> 442  
<212> DNA  
<213> Glycine max

<400> 24933

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caagacttct agcgtcaaga atccaatcca agactgatga ttcaagagaa gagatcagga 120  
cgccacactt caagacttca tataggataa gtatgaaaag aattttgcgg agaccaaata 180  
ccacagtttt gtgttacaga agaattttct caaattttgt aagttaccag agtgattact 240  
ctctactcat cgattaccag tgaccagatt ggttttgaaa aagttttcaa atgatttggtg 300  
acgtgccaaa acgattttca aatagtgtaa tcgattacac tatattacgg atcgattaca 360  
agtgaatctg agcgttgga tgtacatcca attgtgaaga gtcacaactc ttcatcaa 420  
acatagtgtg atcgattaca cc 442

<210> 24934  
<211> 249  
<212> DNA  
<213> Glycine max

<400> 24934

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gcttgagcat ttctagagaa ctgccactt attactaaag ccatttgaat atacaactaa 120  
ccatagttgc taattgtaat cgaatactga ttaagccaca gtgatccgtt acgtatgagc 180  
ataatagtat acaccaactg tacatatata atgtagagtc gactcatatc agcaattata 240  
ttgtggtca 249

<210> 24935  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 24935

gaaactaagc ttctgcatat taaggcgtct ctatagagtg attgtctact ttgtagaat 60  
tcttgactcg gtcttcgtct aatgaatgcg gtcattgcaa tatctattga ctgcattaaa 120  
tgcacattct ttcttcatgc agagaatcca ctctttgcta ttaggggtgtt gaacactaca 180  
acagacaaaac acttccttaa tagctagaat atgtatgtgc accagagctc ttcttttgat 240  
gacaattgaa cactttcaaa tcttgatttc attgattctt catctgattt gacaaatctt 300  
ataagaatgt ttatgcaata catatattag acatagaata ttcactgaac ctttacatat 360  
catctttaat atctgatcaa atcgtacttc tattcgtcta tcgcatgaaa cattacaggc 420  
aca 423

<210> 24936  
<211> 415  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 24936

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agcttagcta cacacacccc tctaataact aagctcacct ccttgagaaa cttccttgaa 120  
aagattccta aagaagctag agcttagcta cacacacctc tctaatagct aagctcacct 180  
ccttgagatg agaagctaga gcttagctac acacacccta taataactaa gtcacacccc 240  
attccaaaaa tacatgaaaa tacaaaaaaa agtccttact acaaagacta ctcaaaatgc 300  
cctggaatac aaggctaana ccctatacta ctagaatggc caaaatacaa ggcccaaaag 360  
taggaaaaac ctatttctaat atttacaag aagagaggat ccaactctga cccat 415

<210> 24937  
<211> 449  
<212> DNA  
<213> Glycine max  
<400> 24937

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tgcttgaagg ttattgaagg agtctatgtg agtttgctag ctttttttac atgctcatct 120  
ccattcttac atcttcagct cactagaatc cttacatctc tcttttgctc cattttcatg 180  
accaaggtct acgaggagct caagattcca actcaacca cactcatctc tttgcttctt 240

tgtgtcaaaa aagaggtaag ggaggagcaa ttgatctctt acgacccatg ctatgttgct 300  
atgaagctca acttcattta tgttgtgggt ctggtatgaa actagtaata tgcaattgtg 360  
ctactatgat ttctgggagt tgaattctag aattctgggt tcaaaaaaga gattctagat 420  
ccttaagaaa tcatacatga tatgtctta 449

<210> 24938  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 24938

agcttctttg agaaaacttc cttgagaagc tagagcttag ctacacacac ccttctaata 60  
actaagctca cctccttgag aagcttcatt gagaagattc ctaaagaagt tagagcttag 120  
ctacacacac cccctataat agctaagctc acccccatgc caaaatacat gaaaatataa 180  
aaaaagtccc tatttcaaag actactcaa atgccctgaa atacaaggct aaaaccctat 240  
actactagaa tggccaaaat acgaggccca aaagaaggaa aaaccaattc taacatttac 300  
aaagaagaat ggatccaacc ttgacccatg ggctcaaaaa tctacccaaa ggttcatgag 360  
aaccctaggg ccttcttttag tagctcaagc ccaagcctct tggagtcttc ta 412

<210> 24939  
<211> 460  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24939

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caaaatatat agagaaaaga tggaagagag agacagccta ctctcaggcc tatctctgct 120  
aacttctcag ataagcaaaa tattacatca gtcatacatc aagtaaagca agatattcaa 180  
cactccccct caagctggag catataaatc atatgcacca agcttggAAC atatagattg 240  
aatcctaggt cctctcaagg acttagtcaa aatatctgtt ggctgatcat tggaactaat 300  
gaactcagtg acaatctcct tggacaatag tttctccga atgaaatgac aatcaatctc 360  
tatgtgctta gttctctcat gaaaaacagg attcgaagca atgtggagag cagcctgatt 420

atcacaatat aacctcatnt gcccaacttc acanaatctc

460

<210> 24940  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 24940

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ttagtcatac tgcttagacg aatgagaaaa ctgcggcata tgaacagggt gaggatgaag 120  
gagaagcccg tgctgtgact gacattccta tacagccaag ttgcccacca actcaactgt 180  
gtcattactc atgcaatacc ataccttctc cttaccacc gccagttat ctacaaaagg 240  
ccatccgtaa aatcaaccac atagtccacc taccgcactt acaatgacta acaccacctt 300  
tatcataaac caaaacacca atcaagagat gaatcttgca tcgagaaagc ctgtagaatt 360  
caccccaatt tcagtgttct atgtgtgactt gctcccatat ctacatgatg attcaat 417

<210> 24941  
<211> 474  
<212> DNA  
<213> Glycine max

<400> 24941

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gtttactcct ctaataaaga gtacaacaaa ttttgtgttt gatgatttag gttttctctt 120  
tttctttctt gttcatatgc aacgttcatt tttttctctt atttgcttct attctatctc 180  
ctatctctat atatttggca tgggtgtctt cgactatctc acgttccaat tgagatgaga 240  
gataagaatt tatctaata tttgtgtctt tttataacctg tatataataa tcacattttt 300  
atactataat taaataataa gataaattgt ataaacttta gcacaataga aatgcagacg 360  
cgagaactat tactaaaaat acatatagaa tttattaatt ttgggtaata gtttaacaaaa 420  
atcaaaaagag tgtagtggag atgggtgacat tttaaaaagt taatagcaaa agag 474

<210> 24942  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 24942

tttcttgctt tgaaaacttc ccttcaccct aggccttaga aactacaatg gttgagtgag 60  
aatggggagc tagttgtaga tatacaagtt ttgctatgct ttttcattgg aaaatatggt 120  
gatgagatac tgtttgatgt agtccctatg gagcctagca atctcttacg tggaaggcct 180  
tggcagtatg ataaggatgt tgttcataat ggtgtcacia acaaatttgc atttgtagat 240  
aaaaggaaaa aggttaccct cacacctatg tctccaagt aggtttgaaa ggatcaaata 300  
atatatgaga gtgataagag aacaagagac taaagtgaaa ctttgtaaca taagacacca 360  
aactgaaaca tagataaagt atcttattac acaatttgac tattattact a 411

<210> 24943

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24943

tatagttatt ggaggagagaa taaaacaatc caaaatttat tgtacctttc aagtaacgaa 60  
gaattctttt tgcggctttt agattaggag aggtaggagc ctccataaag cgacacacaa 120  
ctcccaccgc atatagaata tcgggccttg tattgggttag ataccttana ctcccacaa 180  
gactcttgaa gatcgaggag tctaccttct ctcccttcac aaactttgat aacttcaagc 240  
caccttccat aggtgtgttc acaggattgc aatcaagcat attaaatttc ttcaacactt 300  
cttttgtaga cttttcttct gagacaaaga tacaccattc tttgtttgct tcacttccat 360  
tcccaagtaa tatgacatga gtcccatatc tgtcatatca aattcacgag acatggactc 420  
cttgaagtct tcaaacaaat tt 442

<210> 24944

<211> 419

<212> DNA

<213> Glycine max

<400> 24944

ttgcttatac aaatagaaaa gagaaagaaa gtaattgcat tattaggcta aaataaaatc 60  
tagagaaatc aacactaatt tctaaagcca tttgaatatt aatttagcaa tagtttctaa 120  
ttatatttga atactgatta agccacagtt tccggttaca tatgagcata attgtatata 180



<210> 24947  
 <211> 219  
 <212> DNA  
 <213> Glycine max

<400> 24947

gcacaaatgg ggctaaacac acctgcagat catgatgatg gctgggtcaa attcctacaa 60  
 aggctatcac tcttcaattg atgaacattt accacacttc gtgtacgtat accataatat 120  
 atagattaat atgcacaagt tgggtcatgca aacagaatgg acctaaaata tgaaacgtag 180  
 aaacccatca taactaaaga cattaacaaa actaacata 219

<210> 24948  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 24948

acacaccgct cataactaag ctcacctcct tgagaagctt cattgcgaag atgtgtacag 60  
 aagttagagc ttagctgcac acaccacta taatagctaa gctcacgccc atgcctaaat 120  
 acctgaaaat ctgacaagaa gccctatttc atagactgct ctaaatgccc tgaagtacaa 180  
 ggctaacacc ctatactact agaattggcca aaatacgagg cccaagagac ggagaaacca 240  
 attctacaca ttctaccaga agaattggagc caaccttgac ccatgggctc gacaggctac 300  
 ccacaggttg atgagaacct tagggcctcc tatagtagct caagcccaag cctcttggag 360  
 tcttctat 368

<210> 24949  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24949

gctgaangcg aggaggaaaa aatggcactc actaagctta gcatttcttg taagaggcaa 60  
 aagatataga gaaaagatgg aagacagaga cagcctactc tcacgcctat ctctgcgtac 120  
 tgatcagata agcaaaatat tacagcagtc atacatcatg tcaagcaaga tattcaacac 180  
 tccgcctcaa gctggagcat ataaaacata tgcaccaagc ttggaacata tagatggaat 240

cctatgtcct ctcaaggact gagacaaaag atctgatggc tgatcattgg aactaatgaa 300  
 ctcaagtaca atctccttgg acaatagtgt atcccgaatg acatgacaat caatctctat 360  
 gtgcttagtt ctctcatg 378

<210> 24950  
 <211> 225  
 <212> DNA  
 <213> Glycine max

<400> 24950

tggcgctga tgcggtatct tctccttacg catctgtgcg gtatttcaca ccgcatatgg 60  
 tgcactctca gtacaatctg ctctgatgcc gcatagttaa gccagccccg acacccgcca 120  
 acacccgctg acgcaaccc cttgcggtcg gatagaatat catgctatat tatgtatgct 180  
 atacgaacta attagatgtg agcactgact tgaaatagcc attcg 225

<210> 24951  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<400> 24951

tatgtttgtc tgtcaaacag tataatagta gactgctgat tcatcgatta cagtaacata 60  
 agaaagagac actgaatcgt gaccgtagct gaatataact ctctacgag agtcactcct 120  
 atatttgcta gctgaaggca tacagcttct accagtcaca tgatccatat tgaagtgacc 180  
 ttttgtacac atctactggc agcatcactt tctacgtctc tgatatactc aatagtggga 240  
 gactttgagc agatcaacca tggaaggcaa gcctctaata tactc 285

<210> 24952  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24952

ctcaagctgc ctccctttta gggcattttc tgccacaatc tagttgctta caatcgttac 60  
 ctttgcatta gtaaaaccaa tcgcatgcta atatgtaaaa tgtaaaatat aataaaagta 120



aagaattaaa tatgtactaa tggtagtca atttctcatc tcatttgtgt tgacttgtgg 180  
catttaacga atattctctt ctcttattga cggacataca ctactacat gaattcta 240  
tctacttgtt tatgaaggta actctgacta taataatggt ttaagtaa aatatataac 300  
ggaaaaatta taaatgtcgt ctttattaaa gggtagacagt gaccaacgta cttaattatc 360  
aaaatgaaat ataaataaga taataatggt agatcactan ggctaaacct ttgtcaagat 420  
gtgaatcaat acttgccatt gatcct 446

<210> 24953  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 24953

gcttgcttca tgggagtga cagaggcccc tgcacatgt tcaaaaagat tagtaatcta 60  
attccatttc tttcttgcac ttgcaaatgc atgaaagaaa cttgtgttgg catctccatc 120  
actcaaccaa tagattttcg ccttttgctt ccaaaagtgc tcttcttgat gaagcaaaga 180  
gtttaagtgg ttatttaatt ccatatattg agcaactgag aggatcttca agttgtctac 240  
aagcctccat atctaatttg cacttgtaa tgtctgatac gaataactac tctattctac 300  
tgctacagct aaggaactaa ggaaagctaa ttgaggtaat tgttctcatt cctttattca 360  
ttccactgct tgatatactt atactaagtg ttctaacaga attggaaatg g 411

<210> 24954  
<211> 446  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24954

taagaaaaca tcagaagttg ttctttgttt gcatatttaa caaagggttag atttgagtgc 60  
ccttattcaa ccccttctag ggaccaactg atccacctca ctttccctta aggattccat 120  
tttaaaatca aaaaggattc ctatttggtc gacctcatca aacatcatac ttaagctctc 180  
aacgatgatg aggaatagaa atggcgatat ggatctccct gcattgatca cctattctta 240  
cttcttttgt tggactcctg ttaactaata gtgacaccat cgttatcact ccctaactct 300  
taaccttctt ttatttgatg attgtgagcc tcattctctc cattatataa tccaagaat 360

cccaactcat agaatacataa gaattttcan aaccaactnt anataaaaaga gtttcctttn 420  
tctccttcat cattgcatca accaac 446

<210> 24955  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24955

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atataacgag acgctcgaaa ttgaatattg aacctctgag gaaattcaaa cgacaataac 120  
ttttttctcg gatgtttgat tgagactcgt attatatcga gacgctcgaa attgaatggt 180  
gaagctctga gccaatcaa acgacaataa ctttttactc ggatgtctga ttgactctcg 240  
tcacatatcg agacactcga aattgaatgt tgaagctctg agccaattca aacgacaata 300  
actttntact cggacgtctg attcagtcct gtcatatatc gagacgctcg aaattgaatg 360  
ttgatgctct gagcaaattc aaacgacaat aactttntac tcggatgtct g 411

<210> 24956  
<211> 477  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24956

ggaccttaaa actaagctta ancattcaat ttgagcgtct cgtaatttta cgggactcaa 60  
tcagacatcc gagtaaaaaat ttattgtcgt ttggattggc tcagagattc aacattcaat 120  
ttcagacgtc tcgatatatt acgggctca atcagacatc cgagtaaaaa gttattgtcg 180  
cttgaattgg ctcagagctt caacattcaa tttcagacgt ctcgatatat gaccggactc 240  
aatcagacat ccgagtaaaa agttattgtc gtttgaattg gctcagagct tcaacattca 300  
attttgagcg ttcgatata ttacgggact caatcagaca tccgagtaaa aagttattgt 360  
cgtttgatt ggctcagaga ttcaacattc aatttcgagc gtctcgatat attacgggac 420  
tcaactcagac atccgagtaa aaagttattg tcgtttgaat tagctcagag cttcaac 477

<210> 24957  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 24957

agcttggttt tgaaagtttt ttccttttc tttttggaat aagaatagta ggaactatga 60  
 agtagataac aacccagtt ctaccgatg caaggaaatt agtaaaggcc caatagagaa 120  
 agttttattgc acagcttaaa ccacaagcaa tttttctcgt gaaaagatgc ctatcaaaag 180  
 aattttgaaa gcttttagga tattggaact tgtgcattcg gggaaggatga gagtctgtca 240  
 aaatccttca tcatttgtgt caatttgtac tccttgaaag gttatagtgg gaataatgtc 300  
 caattaatgg tgatacaata acaccttggt taattagtgc taaaagtta aaattaagtc 360  
 gtaaatttct taccgaaaaa ttaattatga catattggag tggtgacagt gggtataagt 420

<210> 24958  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24958

tgactattac ttatacatt caaccaatga gagaaatatg tctatattca tttaaagact 60  
 gtggatgggt tgttttagga ataagagcca agaacgaggc attgctgcct ataggggaagc 120  
 taccatgaat atggaattca tccacaaatc tctgaattc aggtttcaaa acccccaaa 180  
 attccttaat aaaattgaaa ttaaagccat ttggccccgg acatttgtct ccaccacaac 240  
 tccaaacaac atctttaagc tcttggtctg aaaaaggggc agtcacccc tctttgcctc 300  
 tgatcaatca tagggaaata taccatcc agagaaggctc tgaacaattt atcttcagta 360  
 aatctatgga gaaagtatnt gagaacttca ttcttgacta aattaggctg ctgaacccat 420  
 acaccatcaa tgaagattcc ctgacaagca ttgaagtttc tt 462

<210> 24959  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 24959

agctttgtgt tatcgattac aaggatttgg taatcgatta ccagtgacaa gttttgaaga 60  
 aaaatcaaaa gatgtaactc ttccaatggt tttcagggtt ttctaaaggt tataactctt 120  
 ccaatggttc tcttgaccag acttgaagag tctataaaag caataccttg atttgcattt 180  
 gaagactact tacaatactt acaaccttta caaacaactt ttccacatat tcttttacia 240  
 cctttgaatc tctttgaact tcttcttctt cttcttcttc ctcttttgca aaaagctttc 300  
 taaagttatc tggtttccga accttgataa caacagtgtg ctattcatcc ttttctttct 360  
 ctactccct 369

<210> 24960  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<400> 24960

tgttggagat tgctgaaaat catgggagaa ttggtttcta ttacatgcct acaagtgtctg 60  
 ataaaaagag gattgatttg gaaaggaaag agaaatgctt agctcgttta caagggcgag 120  
 aaccacgggt ggagaggggt cctatctacc acatcattga gagctttgtg agtacagggt 180  
 gtatgtacga agatcatgtt gctatgctgg atgaaaagac cgatcatgat caaccaaatt 240  
 ggggtgcagcc atgtcccata gactttgatt gaaaaattga catatcatag agcaacccaa 300  
 gatttatgtt tctaatttga tgtcaatcaa ccaaactaag gaagatgaag agaaggatta 360  
 aggattgtct cctgatttgt tgaggatggt ggtgcatgac aagagggaaa taaagctgca 420  
 tcatgaggaa tcagagcttg ttaacctgcg cactgatga 459

<210> 24961  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24961

agcttttatg aaagaatata cgaaaattat ctatgtgaat cattcttttg ttcattcttg 60  
 taaagttttc tgtaaattct tgtaaagata caaaactttc aaaacacctt gtatactttg 120  
 agagaaaaga ctgaaaatgc taagtggat atccatctat aagatgatca tactttagtt 180  
 ggtgaacaac cttccaacaa atcatgttta tttatttaga gccaatagtg gcttggtaaa 240

acaaagaatg atgaatttaa gttaaacttg nggtacatat agtaaagtga agagtcaaaa 300  
 gtgacagtaa aaaatactta taacattgat aagttagtga aaacttacta tatgggtgtc 360  
 aagaactaga tgtagtcttg aggttgatac gaactagtat aat 403

<210> 24962  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24962

tgtagcanat ntaattacag aagcaggtgc aaatcgtgta cttgcttgtg acctccattc 60  
 tgggcagtc atgggctatt ttgatattcc agttgatcat gtgtatggcc aggtaacgga 120  
 ttattatgtc actagcatat agtaatagca tggaagaata aaaagcattt aatctattaa 180  
 actcaaacia acatggcttg gatgtgttgt atattagtaa tttgtaattg atagtccatc 240  
 caataatttg ttaatttatt gtatttatgc atctcaagtc tgaattgaaa tgaagggaca 300  
 accttctgga aacatgctta ttttactgtt tatagttata tgatcattta aatttacgat 360  
 ttctgtagta aagaaacttc aaatctagtt ttcttttagac gtgctaaaat cttctattgt 420  
 tctattttatc ccagatcagt cacacatgga ctctaattg 458

<210> 24963  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24963

agtttgtaat tcttgatccg cagataacat aggtggtaaa gtttgggact ggaacgagtc 60  
 accaatggct ttcttgagga aagagaaata aaatgtcaga tgaattttac tgtgagatgg 120  
 aagatccaac ttataagcaa caacaccaac cttgtttaac acctggaaag gaccataaaa 180  
 ccaaggggag agtttttcat taatcctttt agccaaggat cttctcctat aaggttgcatt 240  
 cttcaagaac acccaatcac cgactgcata ttctatgtct cggtggcatt tgttggcatt 300  
 tgctcacatg atatcttgag acttcaacia attttctctt agagtagcca ataattcatt 360  
 ccaagaaatt nttagtttat tgactttctc 390

<210> 24964  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24964

tcttagccaa cttgcttcct cactagcagt tgctagtgt atcatctcag attccatagt 60  
 ggactgagct aagatcattt gtttctttga cttccaagaa acagccccac cagctatgct 120  
 aaatatatag cgcgtggttg ctttggaatc atctgagaga gtgttccaat ctgcatcggt 180  
 gtatccttca agtacagcgg gaaacctttt ataatgtaat ccaagattta tggttctttt 240  
 aaggtaacctc attacctttt caatagcgtg ccagtgtctc atactagggtc tactggtaaa 300  
 cctgcataat aatcccacaa cataggctat gtcgggtcta gtacaatcag tggcatacct 360  
 aaggctgcca atgatacttg cgtactcagt ttgtcgtata ccttcaccag tgttcttaaa 420  
 cagttntaca ctnggatcat atgggtgtact 450

<210> 24965  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24965

atcaataggt tagcccatcc tcttatgact ctaatggtgt tggactacca taatacaaat 60  
 agcgtaacta ttttgaattt tctctttcca gagaataaaa aaaaggagag aaagataaga 120  
 gtataaacac accaaggggt aggaccgtta ggtggtatac cttttccatt tgatgttggt 180  
 agttatagtt cattgtgtat aataatcaaa tgaaatattg atgttcaatt nttttcctgt 240  
 tatcttagat aagttagatg tctgtaacta tatgtatagt aatccctaag attaagagat 300  
 aattatctct tgctgtatca ttattatcat gtgtatatat atacagtcct agttgaggat 360  
 tctcttcttc aggaaatcaa tgaaacattc acatttaatt caaggtggta tta 413

<210> 24966  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24966

ngtggcaaat gaagaagaag aagaaggtaa ttaagatttt catagagatt cagaggttgc 60  
 agaagaatat tgtgaaagat attttaaagtg cgagtcaagg ttttgctttt atagattctt 120  
 catgtctggt caagaaaacc attggaaaga atatgacctt gagaaaaact gaaaaccggt 180  
 ggaagagtta catcttttga tctttattca caagttgtca ctgataatcg attacaaaaa 240  
 ttatgttatac gattacacag agctttttat gaaagaatat gactcttcac aattgatttt 300  
 gaatttcaac gttcacatac actagtaatc gactaccaat atcttgtaat caattacacc 360  
 atctgaaatc tattggaacg ctgcatattc gttaaaaact ctttgaaatc aaactttgcc 420  
 actggttaatt gatacaagaa act 443

<210> 24967  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 24967  
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 aaggataggt gccctgaaat tgcattctgt atgcagtata agagtggagc aactactatg 120  
 ccacgtgact aatgttgaca atacggggccg gtccggctcg ctgatggccc gctataaacg 180  
 ggccagagta gcccggtgctg ctgagcataa cagtctacct tacgtaatat ggcccatttc 240  
 aagttggtcc acggtccacc catgaactca ttgatatggt attgtgagaa tatggatcga 300  
 cttttatcga tgctggtaac atcagtttag aatctaactc tagtctttat ataattcggt 360  
 ataactataa ctaataatat actatgacgt aacg 394

<210> 24968  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 24968  
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 aactgtcttt gggcttggcg gccacgctca acaaagtact ttcgacacct actgtacgtt 120

gatttcacca atgctgttat gggaatgttg cgacaatcct ttaaaacctt attgatacat 180  
tctgagaggt tegtgtgcat gtggccatat cgacgtcctt cccttcgtaa gccatcgacc 240  
atttttcctt tgagatgcga tctatccatg ttgctatggc tggactcagt tcacgaaatt 300  
attctaaatg ttgatcaaaa atgtgcttgc atggagtgtg agctgcataa aatgagttat 360  
gaataacaat tgtagtata aatgaaagta aaataaacgt gaccatcaaa tatgaaatct 420  
tacceaatc c 431

<210> 24969  
<211> 409  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 24969

ttgttccatg catagtcgcc aatacttgta gttcgatcgt acaagtttct caacaccaaa 60  
ctgcatatct gatcagtttc ctccagtttg cgagtccttg aaaaccagtt cagtctgcct 120  
taaattctta gagcgaagaa ttgaaaaaga gaagaaaaaa agcccagatc aaagtccaag 180  
ctctagatac cataaaacaa ataatgaat atttgaaata tgaaaaacaa gataccaaat 240  
ttttactttt ttttgttata ttttcgcttc tttttatttg ctttgattct tttccaaaat 300  
aaaacatacc atcaaagtat ttttctatga acactcctat aaaaattaag tgagtttcaa 360  
aaatattttt cctttgaacc agactgacca tataatctnt atcttaatg 409

<210> 24970  
<211> 455  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 24970

gaacttaaatt ctaagcttca tgtaaagatg ggcaagagg gatttattac tttcgaactt 60  
atacacacag atctaattggg gtcgacaaaa acacctagat atagtggatg tatagatact 120  
atggcagtat atgatgatta cactcgatat acttggttgt atttcctaaa agagaatagt 180  
gaagttacgc ataagtcagn tttttctct gacatggtgg agaaagaccg tgatggaaca 240  
atcaaattgct tgacgagcga ctatggatga gagttcaagt caacagattt cacagttttt 300



tgtcctgaga aaatggatcc atatgcaatt tacttgtcca gatacactgc aacaaaatgc 360  
 agtggctgag aggaaattat ctcatctaac tgtagtgagc ttgtcatgga tacatgacaa 420  
 aaatctgcct cgagagatat angcagaagc aattc 455

<210> 24971  
 <211> 148  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24971

atatcaaagc tcatgatagc ttcacaatac taataactaa gacactaaat actatatttatt 60  
 agttcttatac acgcgnaatc acacagcgat agttcgact aaatattgca cttatgaaac 120  
 tacagctcta acatacttat gccattg 148

<210> 24972  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 24972

tactcaagct ggcggtgcac attatggaga aagacattgg cacctttggt ctcatagagc 60  
 agctctatat aagaggaggg catttattaa gaaatgaaca ataaatcatt acaatttata 120  
 aaattacatt actcttgact ttttttatac tctgcaatca tttctacact aaatattatg 180  
 attacgcaag acccataata gtaatatatg catgtcggtc tattcggtta tctgctcttt 240  
 tgcgtatctt gaatatgctt gtgacttgca atgatctata tatagatata tatatatagg 300  
 tcaaaactgt gacatctatc ctcataagtt gtaataaata ataaacatta atatgcgtct 360  
 ggtatacgta ta 372

<210> 24973  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<400> 24973

ttttacacct cccgctagta tgcttcaaaa taaatatata tatatatata tatatatata 60  
 tatatatata tatatatata tatatatata tatatatata tatatatata tatatatata 120

tatatatatg tgaaagcgta gaggcacttc tatcgtagac cctcttctgt ggggacaacg 180  
 tcgataccat ctgtgtacac atagagagac atatagtact gaaacgcgtg gtatatatgg 240  
 acttctaacg ttatgaacgc gcacagctag acatactcca ccttagaggg tggagaacca 300  
 cgctgagac acatatcgtc atattgaccg catcgcggtgc gcgcccgtta gatcgcccta 360  
 cacagtcaca tttggccgta gggcgcgggc atcctagaca cccttctgat gcaacaccac 420  
 cg 422

<210> 24974  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24974

tgtaggcaat atggtgagtc atgaattttc taacattgng ttaatagcat atattaccat 60  
 actaggattg tctggttagc catcatcaat ctgtcatagt attgattaag caagcttaga 120  
 gcaaattgctt tggcaatatc tacaggatga aaagaaagtg tagatgacta gcaacataaa 180  
 tatctctatt catactttta tctatttaat tagtgattga agatacatga tctgaaatca 240  
 atatgaatca aggaatagat taatctatgt tccaaaattg ggaagagact aaaaatacaa 300  
 gtgtacatta acattattac tgttgtcaag ttctcaagat accttcttaa gaaaacctta 360  
 agcataatat ttaaagcctt taacaaaaat ttgaaaacat agcaatgaaa agtatgccat 420  
 aactcttaac caatgtgtaa agaattctact 450

<210> 24975  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <400> 24975

ttgcttgaga tgaggaagtg tagaaggggtg aaacttcttg cttttattcg ttgaccacag 60  
 agtgggtacct ggagatatgt cgcggggggtc atctaggact gactgttagg tttactcttt 120  
 tgtttttgaa tgggtagacc tgatgtatag gaatttgatg attgtatata tgtgggtgaa 180  
 gccaccactg tggacacctt tgctctggat gacactatgt attttgtaa actaccatat 240

ttaggacagc tttagatgat gaatgcattt atgatcaatc ttgttatttg acaagacagc 300  
 atgagccaac tttatctgta taagggtgta tcgacctgat tttattcttc tatattcacg. 360  
 tgacgacc 368

<210> 24976  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24976

ntgagctaan atcctgactc accataaacc ttgactttgg gtgagaatgt caatccttac 60  
 cctcggaagc aaaaaagaat agaagggaaa tttccaatca aaaaaaaaaa aaaagagaag 120  
 gaaaattccc aatgaaagag aaaaaagaaa agaaaggaaa ttccaatca aagagtggga 180  
 gaaagcaaaa agaaaagaaa gaaaattccc aaccaagaaa tgggaaaagt aaaaaagaaa 240  
 agaagaaagc tcccggtcaa agaaactaga agaaatgtgc agaaaggctt tttgaccaga 300  
 caatatctga acaatacaga attgtcacca aatgaacaaa aaaggaagga aaggaaacca 360  
 cgacctanaa tggctctctc cctttaatta ccaacaaaaa ttccgtgctg tagcgacct 420  
 tttttctcgc cccgcactan acaaa 445

<210> 24977  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 24977

agtttattct aagttcaacc taccacctc agactgatgg ccaaactgaa cggaccattt 60  
 agtcactaaa ggacctttta agagcatgtg tattagaaca aaaaggaggat tgggagtgtt 120  
 ttctgttggt gatagagttc acctataaca atagttttca ttctatcatt ggcattggctc 180  
 catatgaagc tttgtatggt agaagggtga ggacacctc gtgttggcta gaacctggag 240  
 agaacttcac cttaggacct gaagtgttac aacaaaccac tgagaaggta aagttgatcc 300  
 aagagaggat gaagattgct ctgagtaggc aaaagagtta tcaagataag aggaggaaag 360  
 acatggaatt cgaggctggt gatcatgtat tcttgagagt cacctcttgg act 413

<210> 24978  
 <211> 601  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24978

cccacaccat accctcnacn cgcgagtctn gntgtgtaat aacagcacct caatananag 60  
 catcaccacc acaccccaca gagcgcacct ttgancctta gaattgactn cactntcana 120  
 acacgnnaca ccacannaaa cncaagctcg agctaaaatc ccgactcatt atacaccttg 180  
 tctcttggag agaatgtgag acgcttacc tcggaagcaa aaaagaatag aagggaaact 240  
 ctccatctaa aaaaaaacia aagagaagga acaatccac tgaaagagaa aaaagaaaag 300  
 agatgaaact tccaatcaaa gagtgggaga aagcataaac aaaagaaaga gaattcccaa 360  
 ccacacaatg ggaaaagtaa aaaagaaaag acaacagctc ccggtcaaag aaactacaag 420  
 aaatgcgcac aaaggtcctt tgaccaaaaca atatctgaac aatacagaat tgtcaccaaa 480  
 tgaacaaaat aggaaggaaa ggaaaccacg acctaacatg gtctttctct cttaattacc 540  
 aacaaaata ccgagtgtga ggcacctctt ttctcgcccc gcacaaacca aaaaaacaaa 600  
 g 601

<210> 24979  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 24979

agttttttta ttatggggta cccatcacat gtggtactag gtggcggtcg gacgatggtg 60  
 cacaacaagc tttccacatc cacaatgcgc gcataaaccc accatgccct gttgccacc 120  
 tccaactgag ctacagtact cccacgtagg ccatattctt gcttctctca acaccggttc 180  
 cccatcaatc ctatcaagct tccacaacat ccaagcaaaa caacattcat acagcacaag 240  
 ctatgacagc caagcaatac agagtcaatg tagataactc tgctcaacac atcaacaaaa 300  
 atcacagctg ttctcacgta aagaccacag taactattcc ttogatcaa ttctgtaacc 360  
 gtaggatcga ctccgaaatt gtactggacg tctatattgt ataagcttgc at 412

<210> 24980

<211> 346  
 <212> DNA  
 <213> Glycine max

<400> 24980

gcaaacagac acccccaaag gagcggacgg taagagacac aaaaaaacat tgcaaacgca 60  
 agaatccaag aaaaagacgg acaacacaca agaaggaaga tcgcacagcg caagagcgca 120  
 actggagcac aaaacgccga cagcataagc agctaagatt atactaagac caatcaaaaa 180  
 acaacaaacc gacgatcgag gcaaagacca gaaaaaaaaag gacaaagaac acaacagaaa 240  
 aaccgagcaa cggaaagacc gaacaaaaaa aaaggaaata cgagagaaaa aaaaaaaaaa 300  
 acacccgcct caaaacccca gagaccggaa acgaggaaga aatacg 346

<210> 24981  
 <211> 122  
 <212> DNA  
 <213> Glycine max

<400> 24981

cctgagcgag agctgatatc cgtaacacc cgttgacgag aatacctaga caactcaccc 60  
 tactgactta cattcactcc ttatgccttg cgatggacaa tgagtaagtc caatcggcac 120  
 cc 122

<210> 24982  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24982

agctttgtta ccaaatagata agagaacact taggatcgta catgtataaa aagaaaggaa 60  
 cttgacccaa atcgggacct accaatagaa ccaaagttat caaaaggagc gtgatcctaa 120  
 ccgcgacctg tcaatagaac caacactatc aagttcttac ttaacccaag aataaaggaa 180  
 aaactttcac aatagagaaa ctctcaaatt tcattgattt tcaaattctg ccattggaga 240  
 gtacaagagt ttccaattta tagactaatc ttgaaatgct ataataaaat cccactaata 300  
 tgcacttacc aaatgcattg ataattgcat gtcactaaat gaaaataaac gacaataaag 360  
 atgaanataa attcccacta gccactaaat gacctagagc attctagaaa cat 413

<210> 24983  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24983

ntatgcaagt cagctttcaa gaggcattct ggagatttct tttttttcat atcngcgcaa 60  
 aatctcttga attatgaaga tgttgtccat catctttttg ttcttaatga aagcagtttg 120  
 agtttcccca ataatagtct caagcactgg ggctatgcgg ttggccagaa ttttagacac 180  
 aatcttgtat aacaaattac agcacgatat gggcttaata tgattaacct gtgaggcctg 240  
 atcatgctta ggaataagcg caataatagc atgggtgagc tgcttttagaa tttctccagt 300  
 tgtaaagaat tcattatccg cttcaaagat atcatgacca gtgatattcc aagccttctt 360  
 gaagattaaa acattgaaac catctggccc aggagctcta ttgttattca tcacagacat 420  
 aacgttccaa acctctt 437

<210> 24984  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24984

agcttatttt atatgcatnt attgttagac tagacctatt aacctgtgat gatgcaaact 60  
 acaaatgaga cacagggtcat taacaaaatg cggaaaataa aaattaaatc atacctacaa 120  
 tcattgccat gaagcgttgt attgttttgg ttcttccaag ctctatgtct gtctctatct 180  
 agatggcgga tcataatgaa tcttcagaga tgagctcaag gaccaaata catgtgctat 240  
 atatggcatt ctaccatcaa gaatgcatta agtagtcatt accactcatt atagattgtg 300  
 ataattgatt attggtcatt accaccatt aacagtaatt caatctgggt ccagaaactg 360  
 acgagcgatt caat 374

<210> 24985  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<400> 24985

catgcattaa tcaacaattg aacacgtata tgttatcaaa ttttcttttc agaactatac 60  
ttactaaaat ctagagctgt ccctcgtaa ggtggacgtg gccaatgtag gctctaagat 120  
ctcgcacgtt aactgagag tagcctttgt taaaaggaca agtgggggga cctgccaaat 180  
aaaggacttc gacactgaaa taagtacgag agttaagtga gaataaattt tgtaaaaggg 240  
tgagatagaa cctggtactt atagagtggg gtggaagctg caggtcctta tttgttgagg 300  
ttgttacggg gttgtaacaa cccttgacga taatgactag ctagtacata attgtagctt 360  
acacataatg ttgtccttat agatcattga atacttgcca caatatataa aggtctcaac 420  
atattcatat aatgggtact tatagataac ctg 453

<210> 24986

<211> 585

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24986

acccgcgacc ccgcgacccc cncaantagn gtgtattaac ncctccgaac canttcccat 60  
ttncgatnnn ncnnnnnncc ggggcggggg gnattaggac gtcgtcgaac atccgagagc 120  
gaaacgagct ccgcacccga ggatcctaga gagacgagcc gcaggcacgc ttgctattgc 180  
atgcgaccga ccgcccagag agagaaaggc ccacggtcca gacagctcag acagacactg 240  
ctgctggaag atccggagag acaagagctc caagcgcgac acccccacat accccgagaa 300  
gacagtgcga gcgacagaga gatcctcgag gtgaaggaga cctcgcccca ctaagagctt 360  
tgccagcaca acgcatgagc aactcagcgc ggcacaggac gcccgggacc acggaacgct 420  
aagacacacc ggcgagacct ccacgcagga ccgagcgcaa atagacaaa agacgatcaa 480  
gagcgcgtag agagctcaca gtgcaatccg caaccgcgga acacacgcca ctacctngca 540  
caccgacaac gccgctccag gaaggccacc cacaccgcca accccc 585

<210> 24987

<211> 394

<212> DNA

<213> Glycine max

<223>        unsure at all n locations  
<400>        24987

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ttttcttctt gtatgacnga gtcaaaagag gcaacattgc ttgaagcaga gaagatttcc   60
tgtcgtaa at ctgaagtgga tttcaagttc ctgtgttctt tgttggtttc tcaagtcaag  120
aattgcgaag taacacattc ctatTTTTTgg tatttattgc tctttattat tattattatt  180
attattatta ttattattat tattattatt attattatta ttaagtcag ttttacgaaa  240
ttggaggatc tgatggagca acttctccag caattgatgc ttttaaccctc tctcatactt  300
actctctgct gttagctata attcaattta actgtccacc atcttttctt gcattatgta  360
gaattctact catcttaatt ctctgcttta tatt                                     394

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<210>        24988  
<211>        463  
<212>        DNA  
<213>        Glycine max

<400>        24988

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ggaccttaga aactcagctg accccaaata ataatgaaac catgtgacct ttttgtataa   60
agaccacttt ctagctcagg cctagagaag acatgtcact cagttaggaa atcagctact  120
tgaggacaac aacagttgta tacaatgagt catctatgga catgttgact tatttgctg   180
gttcacaaca gacatcttgg tatcgacca agttttcatt gccataagtt ggcatatgt   240
gaagatgcca aaccactcgc ctagaggaag agagagatgg gccgaagagc aagtagaggc  300
actatgggct tataggtgca cccctcagtc tacaactcag gaaattcatt cttggctaac  360
atacgggata gacacaatgt tacatgttga agtaggatag gcctttctcc gaagacatta  420
ttttttcgag gcccaaaaca acgaagcact ataggtggac ctg                                     463

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<210>        24989  
<211>        334  
<212>        DNA  
<213>        Glycine max

<400>        24989

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tgtttatacc tcaactacacc atacatttct gaacataccg ggagtatcga atgagcgaat   60
gtcatatctt gaatataatc tatcctgcac tcttgaatcc aggaattaaa ttgccatcat  120
caaacatggg gagattgtct aagcaaagac tttcatgttt tgacgatgca atgcgaccat  180

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gcgcttctca agtataattt cacatcctac tcctagaatg gactcgggaa tgttctcagt 240  
 taaagttcca ccaatataac tgcccctata agactttctt ggaacaactc tagtactcgg 300  
 caatgttcca tgtcatatct taaatgcatt ctat 334

<210> 24990  
 <211> 551  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24990

ctccccctcc cactatacn tcaatacgcg acgggacgta cncactccc cccccgaggc 60  
 cnatgaacct gantcctngc atgcaagaca caanaaacc aagntgggag gantaggagg 120  
 caccacacac atgtggcact atttggttga cgggcgaagg cgcacaacaa gcgtcgcaca 180  
 ttcacaatgc ggcataaac ccaccatgca ctgcagccca cctacaaccg agcacacgta 240  
 ctccccacgga gcccatatcc acgagcatga gaacaccggg accccatcag tcctccaaag 300  
 cttccacaac gaccaaacia aacagcattc aaatagcaca agcgatcaca gccaagcaaa 360  
 atagagcaaa cgcagaaact ctgcaaaaac accaaccaga tgacagctat actcacttag 420  
 agaccccagt aacaagcact tggggccggg cgattaaccg aaggacaaca cgaaaagcgg 480  
 acaggaagca ttacacataa gcctacactc caccgtggga ccactagaaa acaacagaac 540  
 gattctgacc g 551

<210> 24991  
 <211> 541  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 24991

cccacccgac acaacaagg atanggaaga agaaagtata ataaaccact gannnnnnna 60  
 agagagnnt tgtgtgagtc gtggacagca naggaacagc acgcgngagg aanagaaga 120  
 cggcagcagc atttatTTTT tgctgcgaac caggcaagga gggcttgact cctcaacgag 180  
 catgagaacc aacagaacgg gcatcccatg accacaaatc caaacgttga aaccccgaaa 240  
 aacagcactc acggaaccg ccacgcttct aacaagaata atgctaccaa tggcaacacc 300

aacaacaaca ctgccacaca tcaacctgga atgaaagccc aacccaagc aactgctaca 360  
gaagtgaaca tgctcacaac gagcaacccc accaagaang gcgatacaaa aaaaagaggg 420  
aacaccacct acgcaacagc cagaacgcta agtgacatga ataaaaatcc aagaacacac 480  
atgcttgagc aggattacac caccgcagcc gagagaccta gagcaaagca ggagcagaaa 540  
g 541

<210> 24992  
<211> 164  
<212> DNA  
<213> Glycine max

<400> 24992

tgcttgttta agggagacat gatacatgta agacttggtg ggatcaagat caagggatgc 60  
ccgacattat ttccatgaca ctatgcagga agatgatcgg aaactttatg caagactgga 120  
catgcatgct cctatgggcg ctgaagcgcc agatgatatg ggca 164

<210> 24993  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 24993

ggacctaaga aactcaagct ctcttgga aaatgcattaa gagcttcttg tctctttatt 60  
atgcccccat ctatcgacag ttacattga catggctcga gaggcacgta agacactggt 120  
acctatcgaa aatatggcac tcgatacatg gggggatgac gacaccacga cctcaacaca 180  
gctctgcat gtataggatt ggcgtaatca ttactccctt tgatggccct taggctctcc 240  
tactgaggt gcaatgtctc cttctcttcc atggccaaag gnatgctgcc cacagagaag 300  
ttgagagggt gcagcgagcg cgtgtaaggt accctcaccg cattgtgccg acgtatacta 360  
ctactacgtt gtccgtcagt ggcgaacata ttggatggct cagagccacc tacagcatga 420  
tcccg 425

<210> 24994  
<211> 416  
<212> DNA

<213> Glycine max

<400> 24994

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cctacaagca gaaaggggaag caagggaaag ggtgatcgat tcattgcaca gagaagcaat 120  
gatgtggatg gacaggttca cctttacttt gaatgggagt cagagagctt acccgactgc 180  
tatccaagga caaggcaatg ggagatgaga actcgactcc caaagagggtt cacaggctcc 240  
tcaattatctt ccaacaaatg attatctgat ggcccacata attaagagct actatggcaa 300  
ttgtattgtc gctgtgaatt tgattagata aaccctgttt gttccccaat aaaatgatgt 360  
tgatttaatc ctgtgtgttt aaaactctat gtgaatgcaa tacttcgaca acttat 416

<210> 24995

<211> 243

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24995

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ttgggttaga ttgagggttt gattgggatg gccctatgcc tacaatgcat tttgaagcaa 120  
tggggcatgc cacatagtcc ccgttctctc gctattgatg cctaaacgcg cgcccaccaa 180  
gtgttcagag aaatgcctca atgtccttaa cgtgtgacta ttgttaagaa tcaacccatg 240  
ggg 243

<210> 24996

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 24996

tttctagctc attgctgcgg aacctgtgca tgtcatggct tcaactctca aggagcatga 60  
gtaccaagag attgggtatc ccatgatcac aaatccaaat gtttaacctt ctataaacag 120  
tactcatggg aaccgttatg cttctattat gaataatgct atcaatggca tcaccaacaa 180  
caacactgcc aatcatcacc ctggaatgaa tgcccaaccc cttgcttctc ctacagattt 240

gaacatgctc tatttgagca accccaccaa tcagggtgat aattaataag gagggatcac 300  
tagctacgct tcatttgcca ctctatgtgt cttgaataat aatccaataa cagaattctt 360  
agttatgctn ttacctatgt atccg 385

<210> 24997  
<211> 417  
<212> DNA  
<213> Glycine max

<400> 24997

agtttgactt ttaccagta ttctttgtcc taccaagtca ctactggctc taagcaaate 60  
aacaagattt gttggaagat tgctcactga ctaaagtatg attgtctaata agacgaatat 120  
atcacttagc acttttagtc ttttatctca aggtatacaa ggtgttttaa gagctttgta 180  
cctttacaag aatttacaga aatctttaca tgaaagaatg aaagaatgat tcacgtaggt 240  
gattcatgctc ttgtttcttg aatgcttctt ctatatatag cgttcatgctc caagtatttg 300  
ttatctctca acagttggat tcttcgcttt ggtcttcggt tgatgtcttg agtctgttgc 360  
aacacgtcct tttttcatgc aaaaactatg ctaataggat aatatgtctt gtacttc 417

<210> 24998  
<211> 466  
<212> DNA  
<213> Glycine max

<400> 24998

ttgagccaaa atcctgactc accataaacc ttgaccttgg tgagtatgctc tatecttacc 60  
ctcggaagca aaaaagaaaa gaaggaaaat ttccaatcaa agagaaaagca aaaagaaaag 120  
aaggaaaatt tccaatcaaa gagaaagcaa aaagaaaaga aagaaaattc ccaatcaaag 180  
aatgggagaa agtaaaaaag gaagaagaag aaggaaagaa agtcctgat caaggatcga 240  
aagaaatcag aagaaatgtg cagaaaagtc tttggaccag acaatatctg aacagtacaa 300  
aattgtcacc aaataaacia aaaaggaaaag gaaaccacga cctgaaagtg gtcttctccc 360  
tttgattacc aacaaaaatc ctgtgcgtcg gtgacttgtt cgcctcgcgc aaaacagata 420  
cagataagga aaaggccaaa aacacacaaa agccgataaa cccacc 466

<210> 24999

<211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 24999

agtttctaac aatgggttcgt ttctcttcca ttctctcgc ggtctttctt cttccatgcc 60  
 gtgacttgct tcaacctcta tgctgtgact gtcactgcta tagcaacaaa cctcatgcgt 120  
 gttgctataa gtaccataac ctattttctcc attctcattt cttgttgaga aagcttccgt 180  
 ccccgaccca cgtcaacgcc acgagtttct ctgcgaatct ttgaaccccg tgggtgcttc 240  
 gttcttcgtg cgcgccactt gattgactgg cttgtcgagg taaacaatgt ttgttgatgg 300  
 ataacacatg ttaacttcaa aagtattaac gttattatat tgcaaatggn gacatctaag 360  
 taatatatta ttgttgggaa catcatgggt ggttcgaata gttcagtatc acact 415

<210> 25000  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<400> 25000

tagggggatg atagggatta attgtaagca attatattgt atgattctca actcccacat 60  
 taaaagtata agattctaata gtaagattta agacttaaaa caacaacagc tagcttttac 120  
 tgggtgttta tcccaagatt tttatcaatc agtatccaag tccttggtcac acaccatggc 180  
 attattagac ttgacacaaa taccaaattc taaaaaatgt tattaaacat aatattactt 240  
 taataacttt ttccgatgt aatttttctt gatctccac tactagtctt cttgactctt 300  
 gagagctttc catggaataa tgctcttatt tgttccacaa tgctgcctag gagccaatgt 360  
 tatatcatct agttatgaag agcatgtgac taacaagcta tgaagcacia acatagacat 420  
 cagacacgat acagacaatg atactctgac atg 453

<210> 25001  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 25001

agcttgctct acttgaaaag cctcttttga atggtgactc taatgtaagc aacaattatg 60



agaatttggga atccacttaa aaaatctaca atacctagta tectacaaca caaaacaaaa 300  
 ataaactgag acgacatttg cttatgttcc aataggggca actacaaaaa cccttcctcg 360  
 agttcttgtt agtgtgtgat gacgaccac acattgcact c 401

<210> 25004  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<400> 25004

gctctactgt gtgctctctc taaggaagaa ttcccaatgt cacaacttca aaagtgccaa 60  
 acagatgtgg tgatacaaat caacttatag gatcgtcttg aaattaagca aacgaaacaa 120  
 gaggaacttg actctaaccg tgatctatca gtagaaccaa agttataaaa aagtgtgacc 180  
 ctaactgcaa cctaccagta gaactaacac tataaagttc ataaccgaag aacaaagaag 240  
 agctctcaca atggagaaaa caatcaaatt ctaattaata ttcaacttat tctctttgtc 300  
 cattacatgg tttcctattt ataggaaaat agaaaaaaca agtaataaaa aactaaagat 360  
 aagataaaat cctaattgggg gaaacacatc ttagtaagat acgatcatca tcctaataaa 420  
 ggaaataaat tcaaagataa gataatatgc taatag 456

<210> 25005  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 25005

agctacttcg acctcatcta gcccctctcc ccgtcgccat agcgagatcc gtcgtgagat 60  
 ccagtcggtt tctctctatc atttttctga ttttttttcc agatctgaga ttagctcttc 120  
 ccagatctga gattcggttc tcccttggtg tcttcctttt ccgcctcgtc ctcgctcggt 180  
 actccattca cgtcgtcact gcgagatcta gaccgcgtcc tcgctgccgc ctccacacga 240  
 ttgcttcagg aaccgctttc cttttatttg ttgtggaggt atttggcttc ctttgggaatt 300  
 tgactagaga tgcaagttaa gttgtgggtt ntggattttg tttgtaatgt tttagttttc 360  
 ttctttgttg gacctgtgtt gtgcgtttta gtgtttgaag tantatcaat tgta 414

<210> 25006  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 25006

gggagaggat gctccaatgg aggaaaagac agagggttaa aagttgatgg gggagcacga 60  
 aattgaagga agaaaaggg agagaagttg aactttgagt tgtgtctcac aagactctca 120  
 ttcacaaag ttacaacatg tgttacacat gcttctattc atagactacg tagcttcctt 180  
 gagaagcttt ctttaagaaaa cttccttgag aagcttcttt gagaaaactt ccttgagaag 240  
 ctagaactta gctacacaca cccatctaaa aactaagctc acctccttga gaagcttcct 300  
 tgagaagtta gagcttagct acacacaccc atctaanaac taagctcacc tccttgacna 360  
 aatacatgac aataaaaaaa aataaaataa gtccttatta caaagacaac tcaacatgcc 420  
 ctaaatacaa ggctanaacc ctataactaat 450

<210> 25007  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 25007

cgcgtnaact aagacatcgt agactcttct anggcgaaag ctagctcggc gcccgatgat 60  
 cctatagagt ctagctgcat gcatgctttc attgaaaagc accaacctat tgctgaggat 120  
 gtgccaacat cttcgaccg atgattcaac acatatgcc acaatgcgtg aacggcttat 180  
 gccttagaca cagctcatct tgcatgttgc tgtaagtga actattgatg ctcaaaacaa 240  
 catatgaagc gatacagctg acgacaatgc ggcaaggaac gacactataa tcgtgtatga 300  
 tagaaagact caatgaacgc aaggaaatca agggagtgtt ccatgctcta acatctaata 360  
 ctagttggag aagtaagcca atggatagct cgagacaaca gtcaagttct taacgatacc 420  
 attatgtcaa ggagaacaca aacttattgg ggatcttgtc tgcaacatgc gggaaactat 480  
 gaattaactg atgtaggctc cg 502

<210> 25008  
 <211> 365



<212> DNA  
 <213> Glycine max  
 <400> 25008

tataggtgta catactagac atagctcatt tagatgttat tctgtctcac attcttaggg 60  
 tgattgtttc cttccctgat gtatctctga tatcatcgat ggcgtgcgct taaaaatgat 120  
 ttttgacaag agtaactttg atatttgatc aaaaggctat cacactcgct tattgttttag 180  
 aagctgcatc tactccaagc atgaagagta agaacttaaa actaatgata cagtctaadc 240  
 gattttgcga tgctaagcgt ctgattcaca ctctgataac acactattac ttgaagctct 300  
 ttactctaaa atatgattct atccagatac ttgtgaaaga aaattttctca ctctgtaag 360  
 tattc 365

<210> 25009  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 25009

ttgctatattt gcagattnta gtaatgaccc actaacctag aattaaaata acttaatgcc 60  
 attaaccttg ggaattaaaa aaaaaacgta atggctgagt gtaactgaaa ttgtggcaac 120  
 caaaagtcac ccccaacagc caacaagtca gccaccattt ggtctcccaa aaggctgatg 180  
 cctaggttgc caattgggcc cttattacaa cttgaactaa acctactaaa gcccttttag 240  
 ttgattaacc caaaacatat atttggctcag ccaactatac aaggattggg ccattaatta 300  
 gacaaactat acactctaaa attgagacaa agtggtgcca tttagtcttg ctccatttgg 360  
 gccatgatat aactcacaac cttggacttt tctc 394

<210> 25010  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<400> 25010

tctcgagaaa ttcaaatggc cataactttt cactcatatg tttgattcag gcgcataata 60  
 tatcgagacg ctcgaaattg agcaacgaaa gctctcgaga aattcaaatg gtcataactt 120

ttcactcggg ggtccgattc acgcgcataa tatatcgaca cacccgaaat tgaacaatag 180  
aagctctcga gaaattcaaa ttgtcataac gttaacacg gaggaccaat tcacgcgcat 240  
aatatatcta gacgctcaaa attgaacaac ggaagctctc gagaaattca aatggacata 300  
acttttctact cggaggtccg attcaggccc ataatatatc gagacactcg aaattgaact 360  
acggaagctc tcgagaaatt cacatgggtca taacgtttca ttcggagatc cgattcaggc 420  
gcataatata tcgagacgct cgaaattgag caac 454

<210> 25011  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 25011

agcatgcttt acttgaaaag cctcttttga atggtgactc taatgtaagc aacaattatg 60  
ttcccattaa ggctagagga aatgaaaata taacctggta ttcaaagtgt ggatttttca 120  
gcattcttac tttctcatgg atgattcctt taataactct agggaatgag aagacttttag 180  
agcatgagga tctcccatct cttgctactg atgacagtgt ggatgggatt ttgccaaactt 240  
ttacaaacaa acttgagtca gagtgtggta atgtgataac aacctactc tagtttcata 300  
acaaccctac gaaaatatga ggttactgca cacatgaaca acactacact agtgtgataa 360  
caaccctgct tacactatgc aaacaaccct g 391

<210> 25012  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 25012

tttcttttta tgcactattc aatggagttg acaagaacat cttcagactg atcaacactt 60  
gcacagtggc caaagatgca tgggagatcc tgaaaatcac tcatgaagga acctccaaag 120  
tgaagatgtc cagattgcaa ctcttggtca caaaattcga aaatctgaag atgaacgacg 180  
aagagtgtat tcatgactta cacatgaaca ttcttgaaat tgccaatgct tgcactgcct 240  
tgggagagag gataacagat gaacagctgg tgagaaagat cctcagatcc ttgcctaaga 300  
gatgtgacat gaaagtcact gcaatagagg atgcccaaga catttgcaac atgagagtag 360

atgaactcat tggttctctt caaaccttng agctatgact ctcggat

407

<210> 25013  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 25013

ntccctcggt gaacaaatac cgataagttt gatagtttcc atcttgggcc tttgtgccac 60  
aactatcgtg aatgggagag aaatgttcat ctaaagcata caagccccta atattatcaa 120  
atcctaaaat tcgagctcct aggagcaaaa ataatgtgag tcttctagag agggcatcaa 180  
ctaccacatt tggtattccc tttttgtatt cgataacata tggaaattgc tctaggtact 240  
ctaccattt tgcattgcctc ttgtttaact cgctttgccc tctaattgtac ttaagtgtatt 300  
gatgatcact atgaatgaca tatcccttgg aaacaaagta atgttcccaa gcttgggaagg 360  
ctattattaa 370

<210> 25014  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 25014

ttgtttttga ccgtttatatt aagccgttat ctgcgcaaat aattgataaa atgaatttca 60  
accgattatt tgtgttgtaa tatcgtttta tcattgtcaa aataaaatcc aaccgatcat 120  
tcgcgttgta accttgggta aatcaaaaaa ggcaaaaata ataataaaat tatcaaagta 180  
tctttgaaaa aaatataata aaataatcaa aatatctttg aaaaaatata gtaaaataat 240  
caaatatct taaaaaaata ataataaaat aataaaaaaa tcaatcggac gtttttcttt 300  
gaaagtttcc ttgaatgaat tgactaataa ccaaagtga actaaggcta aaatcaactc 360  
acaaaccacg cttttttccg canaaagtca cttanaact 399

<210> 25015  
<211> 451  
<212> DNA  
<213> Glycine max

<400> 25015

ttatgtttga gtgtccacat ggatgtgtgc tatgatttat ttgcataaa tttctaataca 60  
tcattgtcat atgtgtgtca tggaaatgat ttagggcatt cccttattct tgaaccgctt 120  
gctaaacaaa tatcccgaca tgcgtcatgt cccaccatcc gtaggccttt tgagccaaac 180  
cttaacattt tggccataac cttgacctag gatggaaatt tccaacctta ccattggaag 240  
aaagaacaaa aagatcttcc aaaaacaaaa aaagcttctt ttaacttggg ttattactgt 300  
gcttcaaagg aaaagaaaat tgaaaggaag aaagtcaacc aatcaaagag aaaagtagaa 360  
aaggaaaaaa atagaaaaga aaaaataaat acagagaggt tctttgaacc caggcaatgt 420  
cttaacaacg tgcaacattg tcaaaagcaa a 451

<210> 25016

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 25016

tcaagttata tgagatcttg atcaaacgaa acacaaaaat gcaatctagt caagccttat 60  
accacaaaag gaacaatata caaaaactaa aattaaaaaa ttaaaccaag aaagacattg 120  
attctattag aaacattttg ttaaatacct cataagtaag acaaatttca acaattaaaa 180  
taagcaaaag caagactaat tttatgtaaa aataaatttc atgtttgaaa caaaccggtg 240  
tgaagtctga aagaaactat tgtgaagaag tttttcgggt ccttcaagct taataagatc 300  
ctgttcaaat gaaacacaga aatgcaacct agtcgagcct tttaccacaa aaggaacaat 360  
atacaaaaac taaaactaan aaattaaacc aaagcagacc ttgattctat 410

<210> 25017

<211> 432

<212> DNA

<213> Glycine max

<400> 25017

gggaaggaaac agagacgact cttaaaggct tgtttgtcaa ggagaatcat tgtgtgtaag 60  
actatgtcaa acaaatgacg catccttctt ccttaggttg atgataactt gcaccattta 120





<210> 25022  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 25022

agtccttgttt ctgcagcagt taagtgaaca aatgaagtgt cgacagtcac tggatgggtg 60  
 cttggtagag gtacatgtaa ttaactaata agatttccta cgtggttaggt ataattatta 120  
 agaagaggca ctatgtatat agacttttat atataaatct tattagagtt ttaacacaat 180  
 ctccactggg ggttgaaatt tattgagaat tataaaataa gaagaatgac tcatcaaagt 240  
 actagtggga cctgccaaat ttgtgatttt taagaaattt gagccaacaa taaagagtgt 300  
 gttcaacaga atgcgctaga gacagtgtng ctagcatttc tctgtttang aatgggtgtt 360  
 gtagttatta gtgaaaatag aaatagaaaa tattttcctt atgtccaaca cgc 413

<210> 25023  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 25023

tagtggagat aatcaacctc aagtaccagg gtagtgttct aagcgtttga aactcgtggc 60  
 ttagcgcatg aaatattatg cgcttatcaa gaagcaggcg cttagcgaaa agactaattt 120  
 tcaaaaataa gttttaaact tagtccttcc ctaagaaatt gaaaccctta agtctaccat 180  
 tcacagggag gctgataggc tccaatatcc agattatata gcaagttccc aatgatcaaa 240  
 tggacgaaaa accaaaaata acacaaattg aaactgggtt gcctcccagg gacgcttct 300  
 ttaatgtcat tagcttgacg cttttacctt gctgggcat cttacgttnt ggctctcacc 360  
 ttgagaacct cttgaccttc tctcattacc tgcaagcaca cattgtgttc tggagcatgc 420  
 ttgtcttcaa caaacaagta anaaacaata ttctgatctt 460

<210> 25024  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 25024

agttctcttt ttgtgttccc ctggttgccc ccatatacag gagaaatgtc caatttcaat 60

atgggaactt tagttgtgag acaagcactg taatatgggt caatgcttta tgaggaaaaa 120

gcacgggtcta tttttttgga gctgtcaaaa cttttaattt aatgacagaa aagaaaaacc 180

tttaattggg attcctatat ctttgagatc ttttatcaaa gttttatctg tagttggaaa 240

aggctagtgt tttgtagaag cacatagttt aggttagagt actcttccca aatttgaaca 300

ttatgactct ntagtttgta ttgcagagtg gaacttaatc ttgtagctgt tagtactgga 360

agatttagtc tcttgattct gcaattatct caacaaacat tttcggaagc t 411

<210> 25025

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 25025

gcttgcgaaa atatgcatgc tgtaaaaaatg taaagctaata ctctatcta tcttttcctt 60

aacgaaatgt gtattaatat gatgagattc atcatgttga actaattgcg ggataatgat 120

atataacttg tcataccata tctggatgag aacctgacgt ccagatcccc ttatgatcta 180

caataagtcc catcaaagt aatgaagata ttcattgtgt cataactgga aatccaaggt 240

atatacnnn ccaccgtatg ccattactta ctcatgcact gtaatagatt atatacttac 300

taacatgtag cttaacttta atatttaatc tttgactgag ctgcataatt agaatccgtg 360

tacactttca tggttaaggga acgacacttc gattccctat cttatacact agtcattaac 420

caagtgtaaa t 431

<210> 25026

<211> 417

<212> DNA

<213> Glycine max

<400> 25026

agtttattga atcgatctca aaaactcaat atagctatgt aaattttttt taaaaataa 60

gatcgttatc cgcaagatcc tatgacttaa ccagctaatc cacagatatg agtttgtata 120

cccactccta agtgtagcat tagtttgctt taccttcgta acaattgtgt gaatgaaggt 180



atttacatca atatctccaa aaaataatat cacattcgat gttgattgaa aataatcttg 240  
 cacataaata aaaaataatt atgaatgagg ttgcaaaat agccccaacc taattattga 300  
 ttgaaaattt ccagtttgat caattttgat ctattaatta ttgattgaaa aattcattga 360  
 attttataaa caatatataa atagttaacc acccatataa tagatgaatg aatcgga 417

<210> 25027  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<400> 25027

tgctgctatg attaacattt catcgatgaa ttaaattttg actgttatgc attatctttt 60  
 gttgcatgca gacatcttat atctttcacg cacacaaaaa attgtaacaa atcatatttg 120  
 tttggcagaa gtggggccga agaaaatact agatctgatg aatgtcccat ggctgactag 180  
 agagaacggt gctagccact tgcaggtgat gctataattt cacacctgaa tggtatcttt 240  
 cattcaaagtg agcatctagt ttttaattt ttttactgta tgcattgatta catctcattt 300  
 atatccccgt ttggtagact tagaatcaca acaaagcttc actttaatac aatatggtgt 360  
 aagtggtaac ctccaaacca ttggtcctgt acaaatgttt ctcaaaaaca ttacaactta 420  
 cacgttactc agcatgtcca tctctatcta at 452

<210> 25028  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 25028

agttaattcg tacaatcaat gtagaaaaac atgaccgcgt tgcgatgtaa aggggaaaag 60  
 acggaaactt aaaagaaaaa gcacttggga ccaaatatga gagctaacgc acaagagaag 120  
 agagaaaacc cgtcacttgg ggaccttgct cttcattatc tttcatgctc tgtcatgact 180  
 gtcggttcct tcttgatatt gtaagcctct tgtgacaata agagactaaa ccatcaattg 240  
 ttgggagctc agtaacccaa cactcttgat gtaatgattt taactatcta tttaatgcta 300  
 tttcgagatt attgtttctt ttctgtactt attatcatgt ttatggttgg atgacccatg 360

ctcatgtagt gttatagggg ctatgcattg gaanatgttt ata

403

<210> 25029  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 25029

aagcccagtg atttttacat ttacgtgga tacatttaga tgatagcctt gaatcaaaag 60  
agcctcagaa acctctcttg cattattaag ttttctacct tgtcacaatc catgaataac 120  
cgtagtgcca aatgtaaccg ccattcgaat ggctaataaa gaaatgaaga gaaaaaaggc 180  
tgcaggcttg atccctgtat taacgaaact aacattcgca gataaaaaag tatatcgtgt 240  
atgtgtacgc atcaagctga attccttggg ctaccaaact gactgtgaga aaccggaagc 300  
tagttaacta catgatcaaa gccacactgt cagcgagaat atggccttagg tgaacaatag 360  
tcttgatcaa 370

<210> 25030  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 25030

atcaatatta ggattagaac gatacagagt aaagcatcaa gattaattat aaaaacatag 60  
tcatatgtac actaaattga aagtaaccgg gttcctatatt catgaagaaa cagaggagtt 120  
actactttat aaggagtaac atagtcaatg agatgtacat gaaacataat aggaaataag 180  
aaagtgagct acaaattgtgt gtttgtatct catatcagaa gccgtcgagg atattcaacc 240  
atgcgcattc attgtgaact ttacattaca ttacattat tactcaatga tgctatattt 300  
agcatacacc tatgtaagct ntctagcctc ttacattaca tatgttggct gtccagaata 360  
caagccacac tctattcgta agtcactttg cacaattgca caaattatgc tcgg 414

<210> 25031  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 25031

acaggaggtg gagatgatgg atcttcactg tcattttggt ctgaggtacc tacatgacaa 60  
 caagatggaa ttgacagaac attctggatg gaagaagacc ggtgtgtctt caaagaatgt 120  
 ttctttgaga cacatttgat ctgcacacat atattatcgc ctagtacatg gagaatagca 180  
 ttcttaacct gtttgaagac gagaatatcc tcaaactaca catttgattg ctggggcaaa 240  
 gagtctgtct aaaccgggag agagatcttg aacacaatag atacatccag acactttacg 300  
 tggaacatgg aataaatgat catgacggac attgactgat tgagggattt gattttcatg 360  
 agaacatggg ggcattct 378

<210> 25032  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 25032

cttgtttgaa gtaccaaaca ttgcaactaa gcagctgtcg tccatcaaag atgtactagt 60  
 atgggtggtg actatgactt ccttttcaaa tagattgctg tgctgctttc ctgaatctga 120  
 atccacttgc agatccttct caatttttcc accatcaaat gtacaataat tgcgaacacc 180  
 ccttgaacaa gatgaataat ctgtcttttag aacagaagac aagtttgata agtgaccctc 240  
 accacaaagt tccatgatga cttcttcctt tntggcttct gaacagcata ctgtttcctc 300  
 tactgaaaca cctttattat gatgggtatc agcaatatgc agcagatgaa tgtcattntc 360  
 accagagata acatctagat tcagatccag agaaccagcc tgatccactt t 411

<210> 25033  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<400> 25033

tgacaaagtt agtactcagc agaaccattt aatcttttca atgggtatct tagtggataa 60  
 cagatgggag tggaagcttc aatggaggag aaacctattt gaccacgaag ttgatacggc 120  
 agcagccttt atggcagata ttgctgagtt tcaaattcaa cctgcaagca gggacgttct 180  
 gctatggggg cttgattctg gtggacccta ttccacaaag gcagcttata gcttcttgaa 240

ggatggtgac agccagggtta ctgaagatag tgacttcaag gcaatctgga atctcaaaat 300  
 tccacctaga gcaagtgctt tttcttgag aatattcaag aaccgaatcc ctaccaaggt 360  
 taacttaagg cggagacatg tggagctgcc ttcctataac tgcccgtgt gcgatgagga 420  
 ggaggaaaca gttggtcata tcatgtactc atg 453

<210> 25034  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 25034

ttgtttatcc cccaattttc tataaatagg gggagaagtg aagtagaaaa gggttcagcc 60  
 ccttaggcac ttctatctct ttcgaatttg cttaggaaaa ttgtttctgt gaagaaaatc 120  
 caagccgagg cgcttcgta acgtttccgt gagtgatttc gcgaagggtt tcgaccgttc 180  
 ttcgacgttc ttcattcggt cttcatcggt cttcagtcct caacgggtaa gtacctcaa 240  
 ccaagccttt caattcattc tatgtaccgc tgggtggcca catttggttt catgtatttt 300  
 tattctcggt ttcatttact ttntctaccc ccttttgacg tgcttaagcc atttatttaa 360  
 gtcattcctc gcttaaccta naaataaaaat aaatttccac cgatc 405

<210> 25035  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 25035

ccattcctag actngatgat tngcttgatg agtttcatgg tgccnatatc ttttcaaaaa 60  
 ttgatcttac aagtaggtat caccaaatca ggatgaaaaa gggatgatgag tggaaaaccg 120  
 ctttcaatac caagtttggg ttgtatgaat ggctagtgat gccttttggg ctactaatg 180  
 caccaagcac ctttatgagg cttatgcac atgtcttaag ggatttcata ggtagatttg 240  
 tagttgttta ttttgatgat attttagtgt acagtagaag cctagatgat cacttatgaa 300  
 atctcagaca agttctttca gtccttagga aaaacaccct ctatgcaa atagagaagt 360  
 gtactttctg tgtagaatat atagttttct tatggtttgt agttggtaga aatggagtcc 420

aagtggaccc tgagaaaatc aaggccatcc aagaatgg

458

<210> 25036  
<211> 330  
<212> DNA  
<213> Glycine max

<400> 25036

ttgctacata gccctcatct taaactaatt ataacaaaac ataaaaaccc taaaaatcta 60  
aagctacagt tatagtcttc taccctaaag ttaagacaag aaaaagagaa aaaggaccaa 120  
ggaacttact tggacagtgt atgattgatg cttcaaagtc gaaaatgcac aaagagagta 180  
caaatgaaaa atgtgcaa attttgagag agagaatgca gaggcgaggt ttctgtaatc 240  
tggcaaatgt gagtgttaact gctgttacac tcaactaagc agttttcata ctttcgctta 300  
gcggaccggt gcgctaagcg agcaagagag 330

<210> 25037  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 25037

ntcagaagat gtaagttcaa catgcttttc ttccatttct gttggaggat ttgtgggatg 60  
ctgtcttata attttttgggt atgtctaact tactggactg gttctcctac tgtaggtcga 120  
tctagagaga attgcaaaag atactcatgg atatgttggt gctgaccttg ctgccctttg 180  
cactgaagtt gctcttcaat gcatcatgga gaaaatggat gtcacgatt tggaagatga 240  
gagcattgat gctgaagtac taaattctat ggcaatgaca aatgagcatt tacatactgc 300  
tctgggaaca agcaatccat ctgctttacg agatactggt agtagtggtt ttaattcttt 360  
taaatttaaa ttattatcta gctggtgagg ctttct 396

<210> 25038  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 25038

agcttataat tctaagaaaa gcgatgaaaa atgttttgaa ctcaatcaag aaaaacatag 60

gattgaattt catcattcga ctcttttagtc ctagtgaaat ttacgcatat gaatcattct 120  
 ttactgttgt tgatgcactc gctaaatcac aatgtattga ttcctcacat atgaaatttc 180  
 taagaataat tatcaaatac tgattccttg catattcaaa aatcatttct gcattaaaca 240  
 agtataagat tgcaatcaat atgttatgat ctattcctag aaacataaca tggagagtaa 300  
 cttcatttag tttagactct caagattgct ttccaatcaa actcaagaac tagattcatg 360  
 agactattaa tgagatagaa tcaagcataa agagcagaat gatgttacca ac 412

<210> 25039  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 25039

ctcagcttag gaacacttgg acaatttggt gcgcacgggt agtgtatgtc ttgaaccaac 60  
 tatectaaat aaaagcttta gttattggat gaaagcagat gaatgatttt acaagtttag 120  
 catgccctct tcacatacga gccgtttgtg cttgaagctt aaacaagaca aacttacttt 180  
 atgatgaatt tcaacatatt agaagaacag ggttgataag attcaaaatc taaaccacag 240  
 ttataattgt gacaaggata ctactttgag agaaaagaaa agcatgtgct gaaaattgtg 300  
 tttcaattgc agcacagact gtatattttt ataaagagtg taaaatcaaa tacaagata 360  
 cattttccta ttactatgnt tacatgggtc aataaatcta gacttttctt tactgatata 420  
 catntgacat t 431

<210> 25040  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 25040

gttttttcca tgttttagaaa ttttaaagct catgttgaaa aggagattgg tgcatatatt 60  
 gcttctttga ggacagatag aggtggtgga tttacctcac atgagtttgt agaattttgc 120  
 aaaaatcaag gcattagtag acaattgact acagcctata ctctcaaca aaacggagtt 180  
 gtagagagga aaaatagaac gataatgaac atggtgcatt ctatgttagc tgagaagcag 240

gttcctaaaa tgttgtggcc cgaagctgta aaatggagtg tgcataact caatagatgt 300  
 cctactatgg ctgtgtagaa canaactcaa gaagaggcat ggagcaatgt gaagccaatt 360  
 gttgattatt ttttagtttt tgagtgtgta gctcatgcac atgtcccat 409

<210> 25041  
 <211> 281  
 <212> DNA  
 <213> Glycine max

<400> 25041

tggagtagag ctcgagttat acatccaaaa gtctaataa caataactgt aactcgcgag 60  
 aaggtaactt ggtgtttatt ccaataactg gatgtcatct cagtggctaa gatcaaaaag 120  
 cataaattat tgtgtctgat ctttatattg ctttttgccc tctttaattg atcaagggat 180  
 cgaattgggtt ttaaagtatt gatataactc ttactatgct aaaacatatt tcattgtgcg 240  
 actgtacttt cggatcatt tatatctatc taaacaaaga c 281

<210> 25042  
 <211> 190  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 25042

aacagaaaaa ccccaaaaan caaaagccac agagagaggc gactaccna caggcaagac 60  
 aagaaaaaga gaaaaaggac caacgaactc acttgacag ggcaagaacg aagccacaaa 120  
 gacgaaaacg cacaaagaga ggacaaagga aaaacgcgca aacgttagga gagagagaac 180  
 gcaaaggcga 190

<210> 25043  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 25043

agcttgacta tttgtgatgg tttcgtacc atagactgca ggttttgcca agaaactaca 60  
 gcaatggctc atattagctn tgctgcgaaa aattccttag gagaaacttc aatgttgaag 120

tccatgaaa tacccttgta tatataatcg tgattctcag atgatttgat gccttaaaat 180  
 tgtgccaaatt gaagttaaac ttgttcaaatt ttatataaaa aaaattccat aatctaagtt 240  
 tgatattttg ggattaatat tgcagtgcct taactttgtt tcgtgtttcc aaagattntg 300  
 caagagatgg tgaagtgaat ataataaaat atattattat gtatcatcct anaatttata 360  
 ataataattg ttgttagttt tagtttaaaa attattagta taaaaattta t 411

<210> 25044  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<400> 25044

ggcataatga attaatgtac ataccgcata aagggttag gaaagtctca tagcattgtg 60  
 gagtgaccaa gctgaggccc tgtggtcgac acacacggca atgatcacgc attgaaagct 120  
 tgccatgaaa cacattaagc cagtgtcgt gtaaggagct ggaaatgtct tgcttatgtc 180  
 tttctgaaaa acgtaatgat ataataattc tcttaaagag gaaaattaaa ctagttaaga 240  
 tagattgatg ctttaattact tgaattatga accatgctgc ccaaacaagg gtgctaagaa 300  
 ttacgaccaa agggcctagg aacatgtttc ctttgccaga agagctagtt ccttccattt 360  
 tctcagcata tctccagtga atacttgatt ggcctaaacc aatgggtttt ccatggtaaa 420  
 atgacaaaag caaggctcca ctcacacaca atatt 455

<210> 25045  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 25045

agctttgtag ccaattcaaa cgacaataac tttttactcg aatgtctgat tgagccccgt 60  
 aatatatcga gacgctagaa atggaatgtt gaacctatga gcctattcaa acgacaataa 120  
 ctttttactc ggatgtctga ttgagtccca taatatatcg agacgctcga aattgaatgt 180  
 tgaacctctg agccaattca aacgacaata actttttact cggatgtccg attgagtgc 240  
 ttaatatgtc gggacgctcg aaattgaatg ttgaacctct gagcaaattc acacgacaat 300  
 aactttttac tcggatgtct gattgagttc cgacatatat cgagacgctc gaaattgaat 360



gttg

364

<210> 25046  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 25046

cattcaattt cgagcgtttc gttatattac gggcttcaat gttatcatcc gagtaaaaag 60  
ttatagtcgt atgaattggc tgaaagctta aacattcaac tttgagcgtc tcgatatatt 120  
acgggactca atcagacatc cgagtaaaaa gttattggcg tgtgaagcgg cttagagcct 180  
tagcatacaa ttatgagcgt ctcgatctag tacgggactg aatcagacat ccgagtaaaa 240  
agttattgcc gtttgaatta gctcacaggt gcaacattca atttcgagcg tctcgatata 300  
ttacgggact caatcagaca tccgagtaaa aagttattga ctggtgaatt ggctcagagg 360  
tgcaacattc aatttggagc gtctcaatgt attacgggac tcaatcagac a 411

<210> 25047  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 25047

agcttgtcta ataatatata gtttgaagtc gagtacttct tataaaaaaa attagttttg 60  
atcctttgat caaatatatt atatatttaa caaattaatt tatcatatgt ataatgtatg 120  
tacttatacc ttatcaaaat caaaataaac cattaactca cattagtaat tttcaaccct 180  
gtacatgttt agttcaattt aacttattgt ctttaaataa taattcattt tttagtttaa 240  
cttttatata tttttaagga tctcactgat atatgttatt tttaaaataa tcattaataa 300  
atcaatcatt gtcaattata tgattattca taattaatat aataacgtta taccttaatt 360  
aaattgtnta attttattaa tcagtctgaa tatctttttt ataataatta a 411

<210> 25048  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 25048

gcttattcag gcctcagcac caaagccggc ttgacattat ttgactatcc tctcagcaaa 60  
taatgagaga caggaagac ctgaaatatc tacgacacta cttccatggt ccaacttgct 120  
tcttacttta tctatttccc cttatagagc ttgatgctgc tctcacgtat ttgtccacat 180  
gtgcgtctgg cttcattcat ccacatgcta tacatgcacg tatgactact catattcaac 240  
agcatctgcc ttacttccac acattcatca tggaagacat caagtaggct tgtgtaagct 300  
caacccgaca tctaacaagc caccgcatgg ctaggtcgca acttttgctg gatgcatatg 360  
tgctcatacc cgccgtctct ctact 385

<210> 25049

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 25049

agcttataat aagacatacc agcattttat tgaaccagtc caaggaccac aatattgggc 60  
ccagacacaa tatacacacc ctgttccacc acataaaagg gtccaaagag gaaggccaaa 120  
gaaaaataga aggagatccg tagatgagga caatgtcaca ggacataagc taaagaggaa 180  
attggctgag tttacatgtg gaagggtgtg ccaaaccaat cataacatta gaagctgtaa 240  
aaatattgga gttcctgtta ggccaaagaa atatgttgca ccatcaactt caaatgagga 300  
tgaccaccta ttatctcaag atgaacaagc tntgaatgag gctgaagaag ctgctgctca 360  
tgttcaacaa gatccggtgg acattaattt atctcagcct catttggtcac aagatagtga 420

<210> 25050

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 25050

tccttgaaaa gattcctaga gaagctagag cttagctaca catacttctc taatagctaa 60  
gtcacctcc ttgagatgag aagctagagc ttagctacac accccttata atagctaagc 120  
tcacccccat gccaaaatac atgaaaatat aaaaaagccc ctacaacaaa gactactcaa 180

aatgccttga aatacaaggt taaaacccta tactactaga atgaccaaaa tacaaggccc 240  
 aaaagaagga aaaacctatt ctaatattha caaagaagag tggaccaaac cttagcccat 300  
 gggctcagaa atctaccctg aggttcatga gaaccccagg gctttcttta gcagctctag 360  
 cccaatcctc ttggagtctt ctatccaata ctcttgnngg gtaggattgc atcatgatcc 420  
 ctatTTTTTt cgtgagtttt aatgtgaaaa gtatcatta 459

<210> 25051  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 25051  
 tatcttattc cttcatagct aagcattagc tcgcttgggc gagcttcaac agccccaaaa 60  
 tggctttttc cctataaata gccatgttgg gggggggggg taagtgggtc caagggttcag 120  
 gagttgagag aatcgagaga aaagaaggag aaagaagaag aagaaagaag aagaaatgga 180  
 agccaaggcg ttaccgaatc gtgactgtga tcattcccta cattgtcttt ttgttctgtg 240  
 ttcttcatgc aacagtcaat tagttatgct attaagagtt gaatgtagac tatgtaccct 300  
 taagggtccc ctctgatatt atgtgcatat tcattcttct tatcaatcat cggttaattca 360  
 tgagtcatca tattagctat ttgattaaca c 391

<210> 25052  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<400> 25052  
 tgtctcagcg tctatgagag acagatacca ttatgttagc tatcatcgcc aagtaccaag 60  
 aagagttggg tctagccacg gccacgagc atagaatcgc ggatgagtat gcccaagtat 120  
 atgcggaaaa agaggctaga ggaagggtga tcgactcttt acaccaagag gcaaccatgt 180  
 ggatggatcg gtttgccttt acctgaacg ggagtcaaga acttccccga ttgttagcca 240  
 aggccaaggc gatggcagac acctactccg cccccgaaga gattcatggg cttctcggct 300  
 attgtcagca tatgatagac ttaatggccc gcataattag aaatcgttag gaaacttgta 360  
 tggctcttca gaccttgact agatatgatt tctttctttt gttttgaaat aaaatgagtt 420

gggcccatgt ttctactcca aaaagcttgg

450

<210> 25053  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 25053

ttcttatgct gcaaataattt acaatagacc tactcaacct cagcagcaaa atcaaccaca 60  
gcagagcaat tatgaccttt ccagcaacag atacaaccct ggatggagga atcacccctaa 120  
cctcagatgg tccagccctc agcaacaaca acagcagcct gtccttcct tccaaaatgc 180  
tgctggccca agcagaccat acattcctcc accaatccaa caacagcaac aaccccagaa 240  
acagccaaca gttgaggccc ctccacaacc ttccctcgaa gaacttgtga ggcaaatgac 300  
tatgcagaac atgcagtttc agtaagagac cagagcctct attcagagct taaccaatca 360  
gatgggacaa ttagctactc aattgaatca acaacagtcc cagaattctg a 411

<210> 25054  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 25054

tgttacagaa cttagganat atcaagaaca agcttggttct cacatcggtc gcgtgtacga 60  
tatccactcg acaagggttg aagtagagga gaccttcaat cctataacgc aacgtggcgg 120  
acaaaaatgg gcagttaact tgaatggcca ttattgtcaa tgcggaaggt attctgcgct 180  
tcactatcca tgttcacaca ttattgcaac ttgtggttac gtgagcatga actactacca 240  
atatatagat gttgtttaca ccaatgaaca catcttaaaa gcatactccg cacaatgggtg 300  
gcctcttggg aatgaagcgg caattcctcc ttctgatgag gcatggacac taatccctga 360  
cccaactaca attcgtgcga taggtcggcc aaaatcaaca aggataagga atgagatgga 420  
ttgtgtcgaa ccatctgacc accgacaaaa atg 453

<210> 25055  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 25055

ttctaattcca atcagatggg acaattggct acccaattga atcaacaaca atcccagaat 60  
tctgacaagc tacctttctca agctgtccaa aatccccaaaa atgtcagtcg catttcattg 120  
aggtcgggaa agcaatgtaa aggacctcaa cccgtagcac cttcctcatc tgcaaatgaa 180  
cctgccaaac ttcactctat tccagaaaaa ggtgatgaca aaaatttacc taacaatttc 240  
tgtgcagggt aatctttctc cacagggtgat tctgatttgc agaagcagca cattcccccg 300  
cttccattcc ctccaagagc agtttccaac aaaaaaatgg aagaggcaga gaaagagatc 360  
ttggaaacgt ttagaanagt agaggtaaac ata 393

<210> 25056  
<211> 445  
<212> DNA  
<213> Glycine max

<400> 25056  
tgaggccgac catggataat tatgggggggt atggagtttc cgtactcctt actacaagag 60  
taataactaa tcaactccacc ctggaaatct tcattgagtt gttgatattg atgtgtttat 120  
aaagttgttg atgatgctcc atggacattg ttgtgtgttg tgcttttatg gaccattggt 180  
gatgttgatg gtgtgcacat acatgtatga gtatgaagtg tgtgggtgcg ttttgcaagt 240  
aagcacgtaa ctagagtaat agttaacggg ggaaagtgct ttttattctt gattcttatt 300  
ggacaacgct gccacaata aatagaacac aagacaaaaa aaaaaaattg atactacacc 360  
tcaaaggtgg ttgctagacg aaataaagtg gcaagactac tttaccaatc cgagaatcaa 420  
ttatatcatg gcgaaaattc tgaac 445

<210> 25057  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 25057

tatcttgctt ctacaagatc ataagtactt acgcgtcgat gtttttaaac aaaaaagggt 60  
ggggacaaac cttgggattt caatgggttg attaaacgct aaacgactcc attgtcgtca 120

ctccaaaatg gtcaagtgc taaatcaaac agaacataca ctctgagga gttccacgag 180  
agatttgcaa aagataggat aaggttgcac gaactatcac ctctttcaa aggacagtca 240  
atctgtgttt tccgaaacaa tcaaataaaa atcaaaatca caaaatatgg aaagaatgcc 300  
atgaacattg tacaactntt cattacattg cattgttgca tacgaagtct gcatttaccg 360  
catttcaaga caaaggttgc atgcatctgc a 391

<210> 25058  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 25058

tgaggcgaga gttaatgaaa tctctnctta tggaactcct tcctaagaat cctagagtca 60  
tgagatctct tcactttctc attgtaaatc ttggagtctc cataggcttc taagcagatc 120  
ttctcaagtt atagcaattg aagcttcttt tccatacctg cttcatcaaa tgccatgtta 180  
caacccttca ctgcccaata agcaaggtgt gcagtctcta ccagaaggtg gcatgcctta 240  
ccaaaaacca ctctattggg agacatccac aaaagtgttt ggtaagcagt cttgtggggc 300  
cgtagagcct actcaagtaa cttgctccaa ttctttctat tgagttgcac taccttcaac 360  
aacacttget tgatctctct attaaaaacc tccgcttgcc cattagtttg gggatgataa 420  
gctataacaa ctctattcac aaccaccatac t 451

<210> 25059  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 25059

tgtttgttat caattacaca catattgtaa tcgattacca gaggagtttt tcagaaaaca 60  
ttctcaatag tcacatcttt ttatctgatt tttaagtggc catcaaaggc ttatatatat 120  
gtgactagag acacgaattt gataagagtt ttgaagaaca aaaaggtctt atcctcttaa 180  
caagcaaaat tgttttatcc tcttacaat tccttgcca aaacacttgt gattcaataa 240  
ggaattattht aagtgtcaa attgttcaat ctatctcttt caagagagat ttcttcttct 300

cttcttctttt attctgaana gggattaaga gactgagggt ctcttggtgt gaaaggattc 360  
 taaacacaaa gganagaatg tccttggtgtg tttagaactt gtaa 404

<210> 25060  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <400> 25060

ttgggacttg agaagcgtga agagaatgtg cacttggtct ttggtgctct tatggcaaag 60  
 gatttggtttc ttggattttt tggcattgtg gggttcaaga tagtcatatt ccgaagcaat 120  
 ctccaccta acaccaaact tttcatgaat attcatatga aacacaagtt atattgactc 180  
 attatgcgac gaactacttg tatccacata agatgagcca ttaacatcgt cagagatagg 240  
 gtcaattcac catgacatat aactaagaga cagctctacc tcacaaacta acttctagaa 300  
 ttgagacacg tgagaaattg aaagcctcaa aggatatctt atcttattct accagttgca 360  
 ataggagtgt cagattatcc attcttggtg cgcactcaca tgtgcaaact cgtaaatttc 420  
 acgtgagaga tatctgatca t 441

<210> 25061  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <400> 25061

agcttctcaa ggaggtgagc ttagttatga gaggggtgtg tgtagctaag ctctagcttc 60  
 tcaaggaagt tttctcaaag aagcttctca aggaagtttt ctcaagaaag cttctcaagg 120  
 aagcaacgta gtctataaat agaagcatgt gtaacacttg ttgtaacttt gatgaatgaa 180  
 agtcttatga gatacacttc aaagttccac ttctttcctt cttttattcc ttcaatttcg 240  
 tgctcccccc ttctctcttt cttttcctcc attaaagcat cctcttcaag cttcttatcc 300  
 aaggcaattc ttggtggtga agctccttct tccatggctt attccttagt ggatggcacg 360  
 tcctctcact tcttctcctt tgtattccgc tgcac 396

<210> 25062  
 <211> 436

<212> DNA  
<213> Glycine max

<400> 25062

tgatttagta taataagaag cacggatata aatatcttga tgcctactat tgatatatag 60  
cattgaccat acatgaaact agctaaagag aatggaaact attgataata gtacactcca 120  
tagatagtca tgctgtgtaa accactacta caagaaagca ctttaaatta tagtattagc 180  
tagtaatttc tatgattgtg ttgatcatgg tcgccctcac ataactgtca ggtgccctca 240  
cttttaattg tgaatttcct gctgccacat taaagggtgc caatgttctg ccatcacatg 300  
tatgatatttc tcagccaatt ttgccaccaa ttccttgaca tgggttggca gccagtttcg 360  
gaccctttga tggacactga attgacaaca gcagctccac ccacattggt gatcaaaact 420  
aggttgaatt atcagt 436

<210> 25063  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 25063

tcttcttttg tgtgggatac ccaatgtgag catagtttcc agacccttaa ggaaagattg 60  
acgaccgctc cagtgctagt tttgcctaac ccgagagaac cttttgaggt gtattgtgat 120  
gcatcaaaga tgggttttagg tggagtgttg atgcaaaatg gccaaagtgg ggcctatgct 180  
tctagacaac ttatgactca tgagaggaat tatcccaccc atgatctata gttggctggt 240  
gtagtttttg cccttaagat ttggagacat tatctgtttg gctctaagtt cgacgtgtct 300  
agtgatcata agagccttaa atacttgttt agtcagaaag agctaaacat gagacaaatg 360  
agatggtttag agtatcttaa ggattatgat tctgagctta gctacca 407

<210> 25064  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 25064

gtacccttat ggcttgctc cggacttcgc tcttctgccc tcccgaaga tttagccaa 60  
gccctacct tggaggggca actcccacct tatgatgact atcccatgca agacaatgag 120



gaaggagata cccatctcgg cccctgctc cacttcaaag atccatcccc ccatgaacta 180  
 ccctaacc aa acatcatcca ccatgtccca tcttcaccog caccataaa agaattctgtt 240  
 cccttctcgg aagataaaagg aaagattaag gcgctcgaag agaggctaag agcagtcgag 300  
 ggcctcggca attaccogtt ctcggtttta gaggatttat gtctcgtgcc caacatcgtc 360  
 atccctccta agttcacagt actggactgt gataagtaca tacggacaac atgtccaaaa 420  
 tggcatcttc agatgtat 438

<210> 25065  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 25065

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 tgttgatcga ggtcgtaccc aaatcaaata aacattaaaa atgcaatatc taggaagtga 120  
 tcttaggttg tcccccaacg agcaatggtc aaccaaaccat tcataatcga tagtaataaa 180  
 atagtaacga attggggggtt gtttgttttt gtaaattaaa tagcgagcaa attttaatta 240  
 gaaaatacaa gaattaaagc acgttgtttc cccttgatcc acaagctagt atcttatact 300  
 aggttacgag aatttattct ttatcagttc aactacttaa tccaacccta gattagatta 360  
 ctaagcgaaa ttttaacataa ggcattcatt atgtgattaa gcaacacata ca 412

<210> 25066  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 25066

tactctttac tctcaaacgt ttgtctgtga gttatatgca aatgctacat tctactccaa 60  
 tcttttaatt tacatttgcc atcgtgttaa cagataacca acaactaatt ttaacaaaag 120  
 ttccttcata ttagaaaaac atctaattgt aggataaact tatgggtgat tggtgagata 180  
 cgtaagctga tccattattt agtgaaagat aaagtaattt cttttagaca gtatgttttt 240  
 aaataaaatg catatattaa tattggaccc tttctctaac atatgtatgt gatctattgg 300  
 cctacagtct gagatc 316

<210> 25067  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 25067  
  
 agcttcatgt ataaagcaac tcaaaatcta ggtatccaaa acccctcaat ttaatggatt 60  
 ttcaagggttt gagaagtgaa attgagaatg gggtaaattt gaagcaaact ctcacctcac 120  
 acaagtctat aacatcaatt taaacttggt caaactgaac ttacacctaa aatttcaccg 180  
 aatcaaaaatt tgactcctca acacccaaat ttaccctaga aatggctctt tgttcacttt 240  
 ggtcatttgt ttttctctct tgcacagccc aaactttctc ataagtccta aatgacattt 300  
 caatctanga ttaactccct ttaacctcca aataccacta aatccagatt tggccttcca 360  
 actctcaaag tctcactctt t 381

<210> 25068  
 <211> 85  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 25068  
  
 ntagctcgcc tgtgcgagct tcaaccgccc caaaattgct ttttctctat aaatagccat 60  
 tatggggggg ggggggtaag ggggtg 85

<210> 25069  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
  
 <400> 25069  
  
 agtttctata ctttatacaa gcatgaagct ttcataccac ttgtagacaa gtggcctcac 60  
 atatcttaag aagggggggt gaattaagat attgcaaact atttcccaa ttaaaattct 120  
 atttcacttt ctatgcaaga tacaattcc cttataaatg aactcttaaa taatgattca 180  
 aatagaacaa tctaactata aatataaaac aataatatat aaaagagttt aacggaagag 240  
 aaaatgcaaa ctcggattta tactggttcg gccacacct tgtgcctacg ttcagtcccc 300

aagcaacttg cttgagagtt ccactatctt gtaaaatcct tttacaagtt ctgaacacac 360  
aaggacaatc cttccttt 378

<210> 25070  
<211> 420  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 25070

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attcacgcgg cttaaattta ctctcagcac gattaatttg aattatacaa tgatctatct 120  
aggtaattca caccattacc tatgttaata attagctaaa aatttacttc atttggtata 180  
cataaaatat ctatttatgc ttataagatt actttagaca attactagtc ttttaccctg 240  
gcgacgcccg gcttcatact cctatttgaa tattactaac acatgtgcaa agttcaataa 300  
cgatgtttat ttgtatgata ataatgttga gttatgttta gaaaaaagca atattaagta 360  
agaatacaaa caaacctaata gctattgtag attgtgtata tgggtgtagat gtaacaatga 420

<210> 25071  
<211> 363  
<212> DNA  
<213> Glycine max  
  
<400> 25071

agttttgttt acattatgat agactttact tgaatcttga aaatgcaaata caaaaccatt 60  
ttctttcagg ccctgatcaa ttcttgcaaa tgcaccattt gtaagctttg cttcttttga 120  
tgcttgaact tcattccatt tttccttgca gcattcttga acggcatgca caatctcgtg 180  
acgagaagta tatgctacgc aaatcaaata aactctctgg ttgttgagag cagtaactct 240  
cattgctttt tccacagaag ccctgacagg ctacgtcaat agttgcaagt ctccaatgaa 300  
atgtaatcga acaccgtatt cattgataag acttacttgt tgaagatact ctacaatctt 360  
ttc 363

<210> 25072  
<211> 411  
<212> DNA

<213> Glycine max

<400> 25072

tataggcgtt gttttgcaat gattcgggtga tgtgggtttgt ttcttcccaa tttggcgtga 60  
gctttttcttt tgagttatct ttcttggcat ttcttcggag cctccaaacc aagttgttgg 120  
gcttgaagct acgtttcttg agcttcaagt tgtatttttg agttattctt tatttgcattg 180  
cttcttcttg aactcatgct ttgcttttga gttcctcgac caaatccaac tctactgcc 240  
aggattctga gttgttggcc gcattgaaca tgcttatgca gagggaaggt tcgccgatct 300  
ccacaggtat catagtgtcg atgtcgtacg ttaacttgaa taaagtgtct tgcattgtag 360  
attgggagta cagtgggtacc ccatagcagc cttgggagct cgttcaccca t 411

<210> 25073

<211> 562

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 25073

caccacgcac acntcancan acacganagt anagatagtg cacacatcga acaccgccgc 60  
atngaaaaca tacancnca naanaaagaa agcngagaat nnaattgaag tcctcgacat 120  
agcaanggcc naanncgagc acggaacccg gagaagcnca aaagncgacc agcaggcatg 180  
cacgctcggc taggatgcat gcacggagga aaagaaagag ggacagaaaag agagaggacg 240  
caccaccaa cgaaggaag aaaaaggag agaagtacaa ctctgagtcg agcctcataa 300  
gaccctcact caacaaagac acaacaagt caacacatga cactataaaa agactacgta 360  
accaccctga gacgccatcc cgagaaaaca accgcgagaa gctacgagga gaagacaccc 420  
gtgagaagct agatctaagc tacacacacc cctctaagaa caaagcacac cttcttgaga 480  
agcgaccgtg aaaagagtcc taaagaagct agagcatagc gacacacacc tccctaacag 540  
caaacacacc tccacggaag ac 562

<210> 25074

<211> 383

<212> DNA

<213> Glycine max

<400> 25074

ttaagaagat tcctaaagaa gctagagctt agtctactcg cacatctcta atagctaagc 60  
 tcacctcctt gagatgagaa gctagagctt acctacaaac cccctattat agctaagctc 120  
 agccccataa caaaatacaa aaaattccct actacaaaga ctacttaaaa tacctcgaaa 180  
 tacaaggcac aaaccctata atactagaat ggccaaaata caaggcccaa acgaaggaaa 240  
 aacctattct aatatttaca aagataagcg ggctcatact ttgtccatgg gctcgaaatc 300  
 taccctatgg atcatgagaa ccttagggcc ttcccttgga tctctggccc aatctgcttg 360  
 gagtcttcta tccaatgccc ttg 383

<210> 25075  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 25075  
 agctttgcat tgtttttctc atccagcaag atgttggatg tcttaaaatc ccgaaatatt 60  
 agctgcacca gtaagaatgg caatcattaa taatgtgttt ccccaaaagt tctcagtgga 120  
 ttttagcata tgtgaaatgc tgtaaaagat atccatagta caaaccatcc acatccttct 180  
 atttatgaca aaaactctct tccataaaga tatccatcca cccaattcac atttaaccaa 240  
 aatcaattct gtaaaaccaa tccaaaatca agcatgcaaa tgttttaacc acaactaaag 300  
 acccacatgc tttcttttca aaatcacata aatgatcaca gagacaaaac ctagataacc 360  
 taattaatac gacaaggtaa ag 382

<210> 25076  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 25076

cgaccttaaa actcagctta nactaggctt ttctcttaaa actcttggtt tgtgccttta 60  
 gggaacccta gaaaatttgg taaattatgt caacgaacca tgggatgaag gaaattgtct 120  
 gttgctccac aaagattact acaaataaga ctcaccttg gggatgtttg actcctggat 180  
 gcattctcat ttgcattcga ccgaaacaca atctttccag aaactctacg agaagcagta 240

cttgatattt tagaattgca attccttggtt tcattttcaa tctctagctg ctttatcatt 300  
 gaagaagttt cttcaactga tgggtgtacaa gggtcgccat ccaaactctt tccataacca 360  
 gtgaatggaa tgatccgggc agtcttagtt gctgaatcat catgaactga aacactatag 420  
 tcagaat 427

<210> 25077  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 25077

tctagcttgt tagaagctgt acaagtcaga gtctctttca gagaacagaa ttatataaat 60  
 ttaatgatat catagataat gaaatatctg tggtccttag ttttcatttt cttgaggcat 120  
 acattaatta ctgatcaatc agtgaatcgg ttcaactggg attaatatat attggcaaac 180  
 cggtatattg ctaagtaatt ggtctgaata aattacgtga ttattcatac atcgtgattt 240  
 cttcatcacc acataaaaca tcgtttttta catataataa ttcataatga ttatatgaaa 300  
 catctctttt ataacaattt gagtatctga agaggacata tactttaatg gagaaataaa 360  
 tttgtggatc acatctgat 379

<210> 25078  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 25078

tatccaaagc ataaatgcta cataacatct tgaggctagc ataagctacg ctggagtacg 60  
 acatgagagc ctgtactatc aacaaaagtc gctcttctaa taccattctc agttatatgc 120  
 tacttttcat cgtctcttat tggagggtata aatctttaat atccccttga ttttgtgtat 180  
 tacattaacc atatcttgat gctagtatat acgatacaaa aactttaatt tgattacttt 240  
 ccttatgctc taatagacag cggatcaagg cttctctcac ctagtcttgc ttattgtctt 300  
 ctagcatatg caagagggtg aaggacagac actttcggaa tccatgctac tcactcttgg 360  
 caacaaaatc cttgtaatgc atagaaaa 388

<210> 25079

<211> 356  
 <212> DNA  
 <213> Glycine max

<400> 25079

ttgtttcttt ttttaacttgg gaagtatgaa agcttattta caacgggtctt gtgaatgcct 60  
 gccagtacta attagtttgc attactacct ctaaactcat atataagtac aaataactaa 120  
 ttacgctaata tatgtccaaa tattgaacta cacgtgcac caatcataaa tatecttgct 180  
 ctagtgtaac ctgtcttggt aatcagcttc tagtttgagt atatgtttct gaaaccatgg 240  
 gtatcggggtt tgtctgagtg gatctactct taatttcttg aatacttatt tagttttgga 300  
 tccaattcta agatactccc ccccgacccc ctaatttaca ttatagacaa gagagc 356

<210> 25080  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 25080

tgaacaacct aatattattt gtcctatcaa gctattgttt gctctaaaac aaataagaag 60  
 attagttggt tggtcggctc actgactgat tcttaattgt cttagagacg gatatacaat 120  
 ctacgcactt agtcttttct ttcaagatgt aaaagggtatt atgagagctt ttgaacttta 180  
 caaagaattt atagaaaagc ttacaataa gaattcaaag atagtagcac gtacgttcgt 240  
 gccttcatct cttctagact ttggtatat ataggccttc ttcttcaagg gttagttgtc 300  
 ttgaaatgga tagatttatt cacttaagct tgcataatgaa gatgcaacta ttggggcatt 360  
 taatgcttac aataaatgca cgccccctac atgttggaag gtcactctct ttagct 416

<210> 25081  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 25081

tctattttgc tgagtgtga gcataaattt atagccttta ttttgatttc ttttttacct 60  
 cttgtactca actgttgaca gatcaaagag gacaagtatt ttattcacia ccacttagca 120  
 tttgtgggta agtatcatat tgatccagag ttagatttgt caaggattgt aggatttgag 180

gttacaccat tcaggttgta ttataattct tttccaccta gtttctaata tagtcttgta 240  
 cttatctatt aatcttatgg ctaataataa ctgtacattg aaatgattct tatgaattca 300  
 gcgtaaagca tgaatatgaa agttaatgga atgagaattc ccgcttaact acctgtga 358

<210> 25082  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
 <400> 25082

ttgctaaggc cggatatgcy cagaagatct tctgcgaat atcttgatta cagatcgcy 60  
 cagaattctt cggctttgta catccaaagt atactttgac gtatggaggt ggccaccgag 120  
 tgaactatcc acgagacaac catattgtta catcgacgcy acgctccatg cattctatct 180  
 gttttgacag gttcaggcy gctgtcattt atgaactcta ctttgttctt ggctctcaat 240  
 gcaatgatca tggacctgct ccatgagtgg tagttactcy aatgtaagac tgtggaaaca 300  
 cggactgtgg ccggtttctc gctcgatgg atgcagagat aactctccat gttgttgatg 360  
 g 361

<210> 25083  
 <211> 340  
 <212> DNA  
 <213> Glycine max  
 <400> 25083

ttatccttta tataagctaa ggcyaggggt gttcatacc agttacacac cacttgagcy 60  
 atcgtatcca ccgatatgca atgtttctat agtatgaccy gtaatacaaa ggagtgcctt 120  
 ctttgattaa tagtgttcgc cgctctacta acatttctgt tggatctttg cctcttagat 180  
 gagaacaaat agggatgaa ttggctcgat ttcatacgtc aaaagctcat aacctcacta 240  
 cactcacatg gtaaccgagt tcacctaacy gcggtggcga gctacacacy cagtgggttac 300  
 gggcgatcgc gacgttttta ccctgggact ctgtaaacgy 340

<210> 25084  
 <211> 417  
 <212> DNA  
 <213> Glycine max



<400> 25084

tgtcaaattg aaacaaatgc ttgtacaaat gaatggttca tataaagggg aaaacagatt 60  
taaaaattga aactacatcc taaaatataa cgctaaagca ctgaccaatt atgtttattt 120  
ataaggtggc cttatagtct tacaccaaac caaaaaactt gtgcatcaaa aatacaaaaa 180  
aaaattcctc aaattgttgc ttatttccaa ggttttcttt tgttttgaac tccctatgaa 240  
cccgaataca caaaagctac tattgcggaa ccacattgtt tataacattc tagcacatca 300  
aatacatagg gtatgactta tgtgtttcaa tcagcaattt ctctacataa aataattttt 360  
tttattgatt aattatcttt ctccaaagta acttactgaa caaacatac cctatgt 417

<210> 25085

<211> 358

<212> DNA

<213> Glycine max

<400> 25085

atttatttgc aacggcaact atgttggtga taaagttgaa aggaaaaaca catgcggcag 60  
atgtcacttt attggtggta acttagttac gtggatatgc aataaactag actcaactac 120  
attgtccact gttgaagttg gatatatgac aacaacaagt tgatgtactc aacttctatg 180  
gataaagaat cagctcgaag actacaacat ctatgatagt caaattccca tctattgtga 240  
taataaagct gctataagtc tttctaaaaa tccaacattg ccttctagat ctaaacatat 300  
acaaattaag catcatttca tacaaccctt aaccaaagac atcacgttct caatggga 358

<210> 25086

<211> 563

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 25086

cccttcgaaa cgacacaaa cgatcacact gcggangcat aataggggtc agnacaagaa 60  
tagaccgcgt gagacacana aaccaaagc acggnatnn nttganacat cgtagcancg 120  
cngngacact aganaacacg caagcggacg gaagcnancc agcccgacaa aaccagaatt 180  
cttgtgctat ccagcaaacc caccgacggg ccaggggcca aaaagaatcc acaagggacg 240  
aacgcgactg aattgccgca gcagacaaac aactaccaag gccacaaacc aaagggggag 300

ccagaagcaa ggaagcgaga gcacctgcac acacggaaac acaaccaacc agacactcta 360  
 cgagaagcag cgatcgcaac acgagaaacg acaagcccgg gatgaaccac aaccgcaaca 420  
 cgggcgacca gagaagaaga ttcatcaccg gaagggggaga cagaaaagcg acgaacccaa 480  
 accctcaact caaggaaaga acagacaccg caagcgaacc cgagaacatg cctcacaagc 540  
 gacacaacaa agcagccaaa ccc 563

<210> 25087  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 25087

tgtatgtttt cttatagaga tgttatttat ttatgcttta ccatttacta atagtgactg 60  
 atatattgta aatagactgt acacacgatg aatgaagata aaaacaattg gaatgataaa 120  
 gctctgactt tgatggagat tatcggatca acggctgaaa cgatcgacac aattcatatt 180  
 aaagatcacg ttatgaatgt caagactatt ctcaaataga catgacatat tttaacacat 240  
 tagtattgct tatattattt ctctttacat gtattcttat ggcgaaagtga gtaagacttt 300  
 tgctgtaata tagaatgatc aactagagca tacttggcat atgctatata gtcttgacaa 360  
 catgcactct atta 374

<210> 25088  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 25088

ttgaacaata tacttggcct tcatttaatt gtttcttggc ttggcggcca cgctcaacaa 60  
 agtactttcg acacctactg tacgttgatt tgaccaaggc tgttatggga atgttgcgac 120  
 aatccttcaa aaccttattg atacattcta agaggttggg tgtcatgtgg ccatatcgac 180  
 gtcattctct atcataagcc atcgccattt ttctctttga aatgcgatca atccatgttg 240  
 ctatggctgg acttagttca cgaaatTTTT ctaaattttg ataaaaaaaa atgtgcttgc 300  
 aaggagtgtg ggctgcataa aattagttat caataacaat ttttaagtata tatggaagtt 360  
 aaataaacgt gaccattaaa tatgaaatct taccoaactt cttcaacatt tctttttgt 419

<210> 25089  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
 <400> 25089

ggtatgttaa tttgaacttg cctgctaagc gagagtgcgc actgagctag gattacacgc 60  
 tgagcgagct gttcaattct tccaactctt cttcaattct tgcatacaatt ttactctaaa 120  
 gcacttgaat tcttcttctt ttgacttctg ctaataaaaa attgcaaaga tgctaatttc 180  
 ttcggttattt cattcaaaac aatagtagcag tgaagaaatt acaatcatta ttagtcaaaa 240  
 ttgactatca agttaactca gatttcgcag ttatcaactc ctccaaatta aaacatttgt 300  
 ttgtcctcat gcaaaagaca agttctgagt gtgccaacac atgagataac tatgaatcca 360  
 ttaatacatt tgtcttga 378

<210> 25090  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <400> 25090

ttatgaatta ctttggctga aaagttttga gctaattgca agctatggca taaggcattt 60  
 acgaattgct ttggttgaaa agcatcttag aagacttgaa aattaaatgg gatggatcta 120  
 tgaagctcta ttttaataat aagtcagcaa tcaatatagc tcatattttt agtttatata 180  
 ccaaaacttt tagtttacca atctcaactc tttcccatca acacacccaa atggagaata 240  
 aagatgagat ttattcatcc atcaggaaaa aaatgctgct tgtcaaaaat taatcaggta 300  
 aatttttctt caaatagaaa taccacaaaa aattcaagcc aaggattcca tggatcattt 360  
 ctatataatt acatattagt gttatactaa aacttcagag gcatatc 407

<210> 25091  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <400> 25091

agcttcttag tctcagatga tgcagctgag tttgtagcta cctcatgcac tcctctaattg 60

actatagcat catttatggc gctaaactgc tgggagttag aagccatctt ctcaattaaa 120  
 ttcttggtt cagcaagagt catgtctcca agggtccac cactggcagc atctatcata 180  
 cttctctcca tattactgag tccttcgtaa aaatattgga gaagaagctg ctctgaaatc 240  
 tgatggtgag ggcaactggc acatagtttt ttaaatecgt ccagtaactc ctacaggctc 300  
 tctccactga gttgtetaat acccgagata tctttcctga tggctatggt cctagaagca 360  
 gggaaaattt tttctaaga 379

<210> 25092  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 25092

tgacaagaaa gcagaacctg gaatttttgt aggttatagc tcaacttcaa aggctacag 60  
 aatctaccta ccatagagca acaaagtaat catcagcagg gatgtcaaatt ttctggagtc 120  
 agatagttgg gactggaaaa atgataagag gtccgagttt caggaggaga atgaagatgt 180  
 tgatgaagaa ccataagag gaaccagatc actttcagac atctgccaaa ggtgtaattgt 240  
 tgctgtgatg gagcctgagg gatatgaaga agctacagct gatcagaaat ggataaatgc 300  
 aatgaaagag gagcttacia tgattgaaaa aaataaaaca tgggagctgg tggacagacc 360  
 taaccacaag aaagcgattg gtgtcaagtg ggtttataga accaagctca atccggatgg 420  
 ttctgt 426

<210> 25093  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 25093

agtctccgtt gttcaatttt gagcgtctcg atatattatg cgctgaatc tgactttcga 60  
 gttaaaagtt atgaccattt caatttcacg agggttctg ttgttcaatt ttgagagtct 120  
 ctatatatta tgcgcctgaa tctgacatcc gagttaaaag ttatgaccat tcgaatttct 180  
 cgagagcttc cgttgttgaa tttcgagcgt ctcatatat tatgcgcctg aatcgacat 240  
 ccgagttaaa agttatgacc atttgaattt cttataagct tccgttggtc aatttcgagc 300

atctcgatat attatgcgcc tgaatctgac ttctcgagtta aaagttatga ccatttgaat 360  
 ttctcgagag ctt 373

<210> 25094  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 25094

tataagaaat tcaaattggtc ataactttta actcggatgt tgcattctgg cgcataatat 60  
 atcgagacgc tcgaaattga acaacggaag cattagagaa attcaaattg tcataacttt 120  
 taactcggag gtctgattca ggcgcataat ctatcgagac gctcaaaatt taacaacgga 180  
 agctcttgag caattcaaatt ggtcataact tttaactcgg atgtccattt caggcacaca 240  
 atatatcgag acggttgaaa ttgaacaacg gaagctctcg agaaattcaa atgggcataa 300  
 cttttaacta ggatgtccga ttcaggcgca taatatatcg agacgctcga aattgaacaa 360  
 cggaagggtta tgagaaattc aaatgggtcat aacttttaac tcggatg 407

<210> 25095  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<400> 25095

agcttgcattc ttattttaga attcctctat aataaagttt attacatcaa tccttttcat 60  
 tttttggtgg taaggacggc ttttagcccat caatcctttt tctatatcta tcatattaat 120  
 gatccgggct cctttgaata ttttacagga aagattctat ttcacctgta atccgatttc 180  
 gtaatcccgat gatgtgaccg ttttattttca tataaattaa ttccttcttt tatatgtgca 240  
 catacaagag ttgggttagc gttttttttc ttgtacaaaa gtaaattaaa ccattttcac 300  
 cagtttagcg gctttcgcca ccttcttcta cctctacaat atcccaccac tgccacaatg 360  
 cccctccac gtgt 374

<210> 25096  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 25096

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gtttgagaag tgaaaatgag aatggggtaa ctttgagca aactcccatc tcaacaagt 120  
ctataacatt aatctaaact cgctcaaact ggttttacga cgaaaactct accgaatcaa 180  
aatttgactc ctcaacaccc aatttaccct agaaatgggt cttgccttca ctttggtcac 240  
tcattttcct cttttgcaca gccaagctt tcccacagtc ctaaatgaaa ggattaactc 300  
actctaact ccaattacca ctaaatccag atttggcttt tcaaactctc aaagcatcac 360  
acctttccac tcatatcact acattctcac tttttaaccc taggttaact ctaccctt 418

<210> 25097

<211> 381

<212> DNA

<213> Glycine max

<400> 25097

agcttgattt gaattaccat ttcaaagag caccaattac gcttgcaccc agaagagcta 60  
caagtcaagc tcaaacacaca gatagcaaac ctctcaact ctagagtctc atcaccaaac 120  
atctcccacc attctccagg ttgcataact tttctagtgt cttttgcctc ttccatagac 180  
aaaaaccctc tagcaaaatc aaactcaaca agttgcaaat taattttttt tcttttctac 240  
aacatccttg accaatcttc tcatacacat gtgcaacct tctttcacct gagggtcac 300  
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<211> 405

<212> DNA

<213> Glycine max

<400> 25098

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tcgaacagtt gcttggtttg tgggtctcagc ccattataa acatattcaa ttgatttggc 180  
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[illegible]

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<213> Glycine max

<223> unsure at all n locations  
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ccttgagaag ctttcttgag aaaacttcct tgaaaagctt atttgagaaa acttccttga 240  
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